FIG. 1

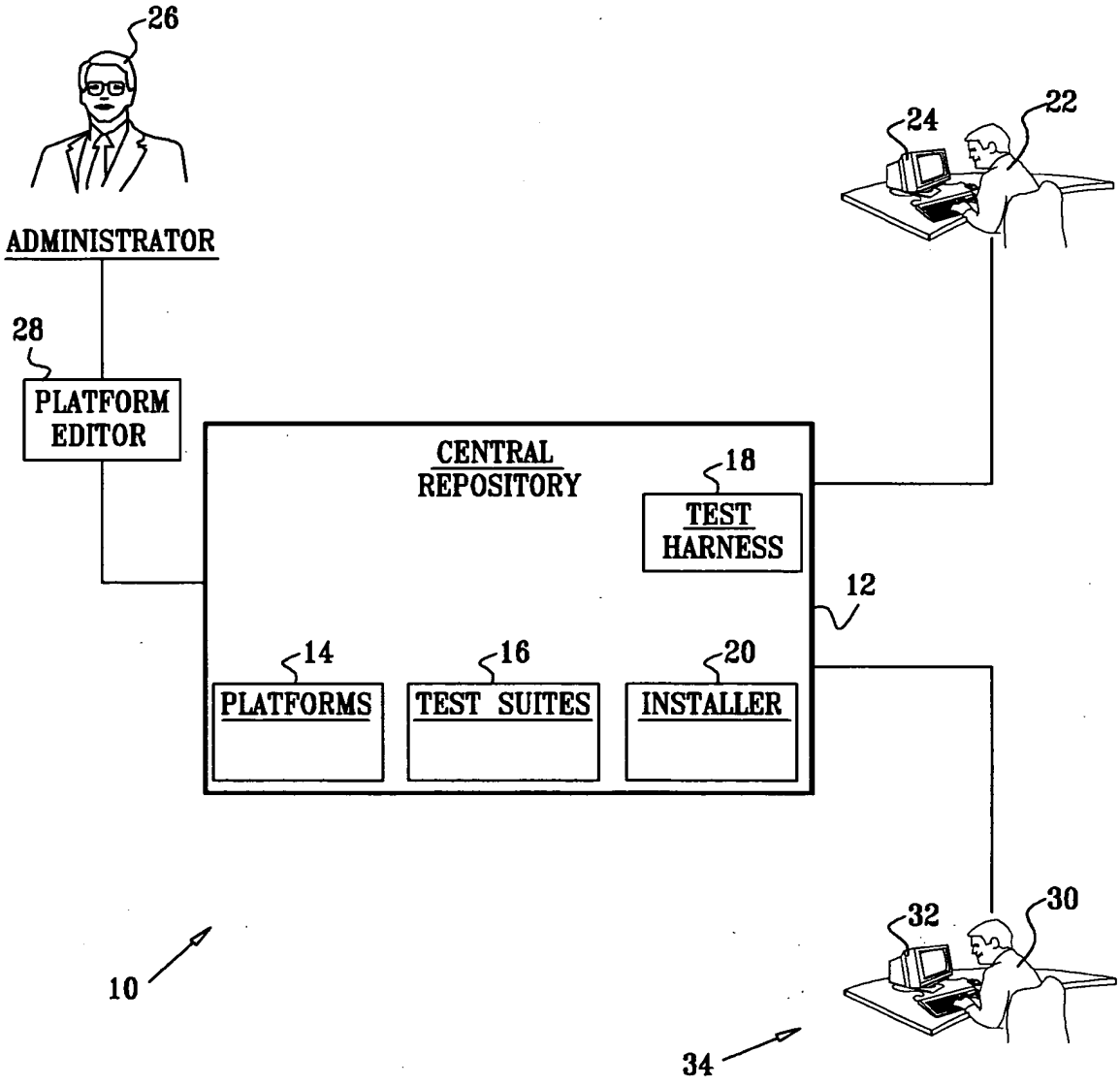

26
ADMINISTRATOR
28
PLATFORM EDITOR
24
22
CENTRAL REPOSITORY
18
TEST HARNESS
12
14
PLATFORMS
16
TEST SUITES
20
INSTALLER
32
30
10
34

FIG. 2

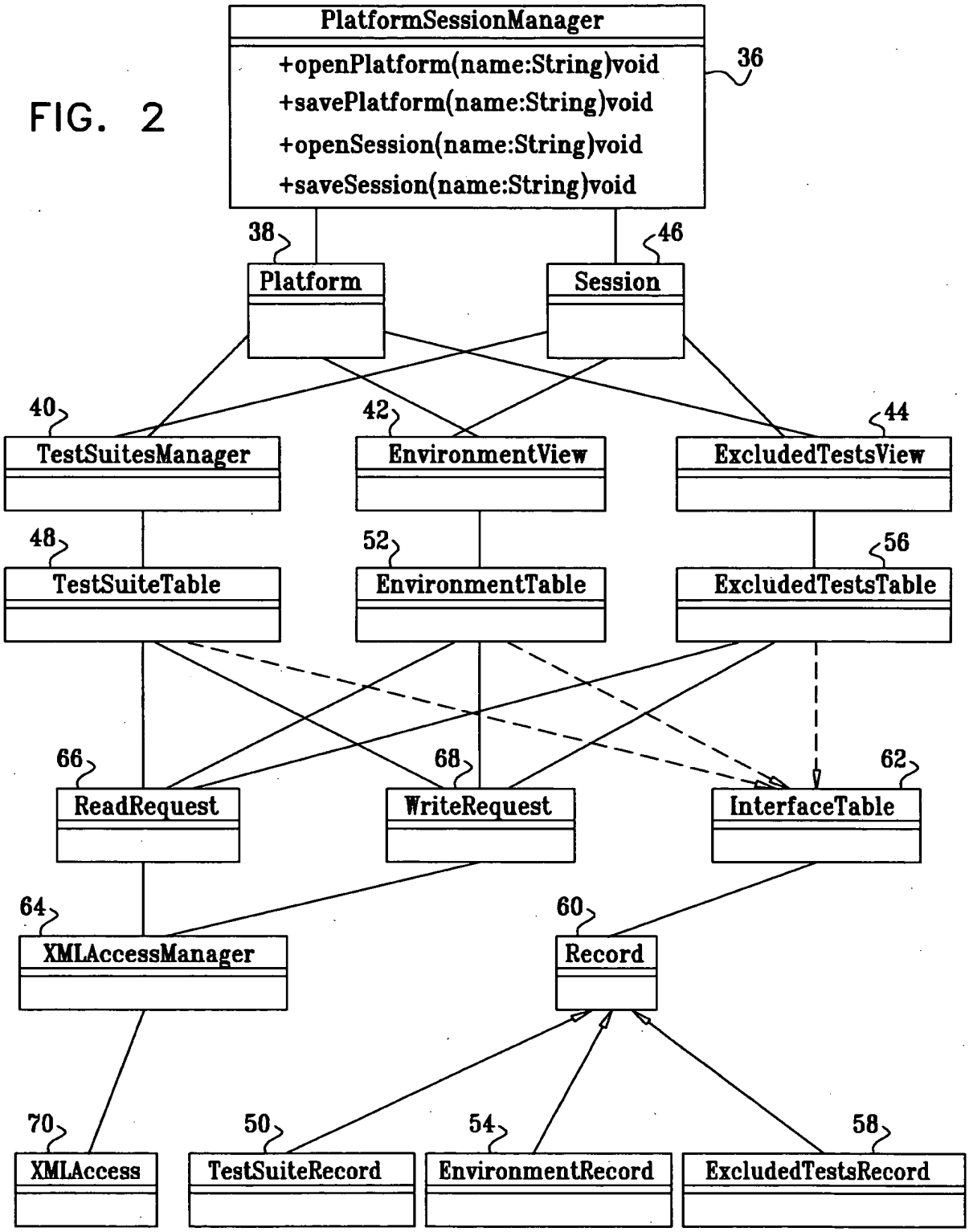

PlatformSessionManager
+openPlatform(name:String)void
+savePlatform(name:String)void
+openSession(name:String)void
+saveSession(name:String)void
36
38
Platform
46
Session
40
TestSuitesManager
42
EnvironmentView
44
ExcludedTestsView
48
TestSuiteTable
52
EnvironmentTable
56
ExcludedTestsTable
66
ReadRequest
68
WriteRequest
62
InterfaceTable
64
XMLAccessManager
60
Record
70
XMLAccess
50
TestSuiteRecord
54
EnvironmentRecord
58
ExcludedTestsRecord

FIG. 3

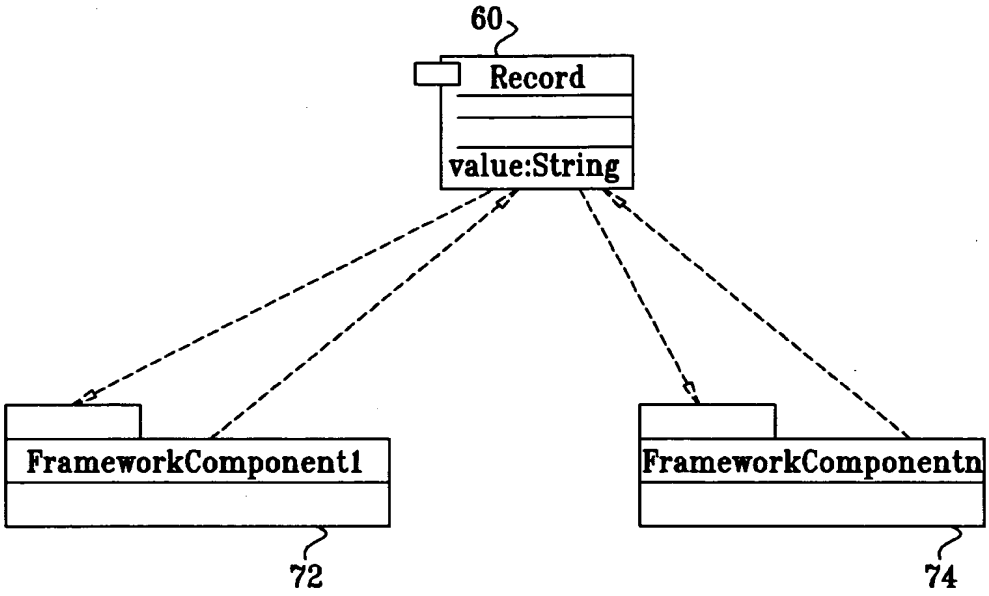

60
Record
value:String
FrameworkComponent1
FrameworkComponentn
72
74

FIG. 4

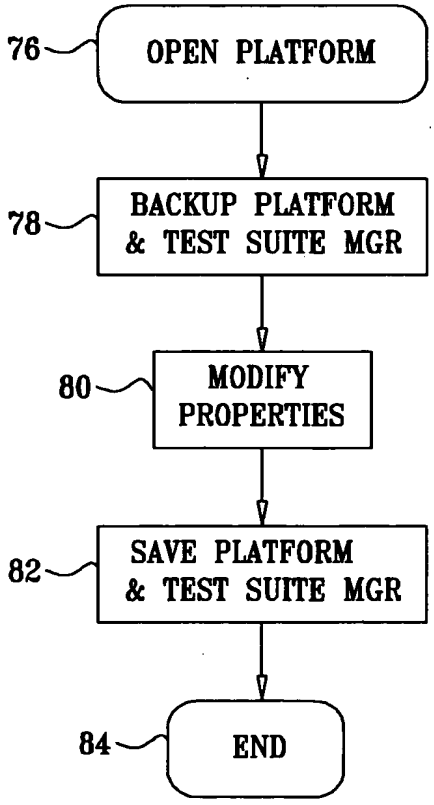
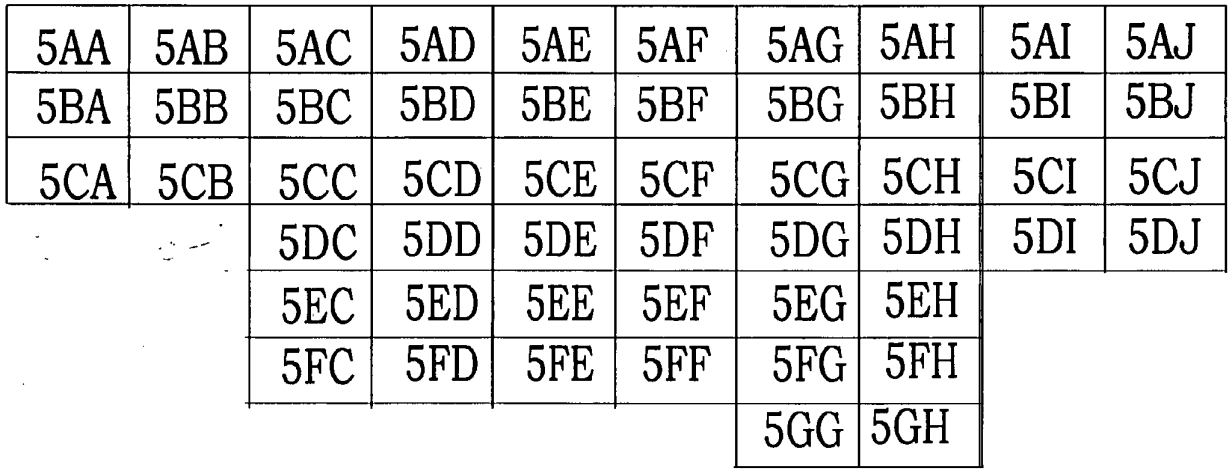

76
OPEN PLATFORM
78
BACKUP PLATFORM & TEST SUITE MGR
80
MODIFY PROPERTIES
82
SAVE PLATFORM & TEST SUITE MGR
84
END

Fig. 5


5AA
5AB
5AC
5AD
5AE
5AF
5AG
5AH
5AI
5AJ
5BA
5BB
5BC
5BD
5BE
5BF
5BG
5BH
5BI
5BJ
5CA
5CB
5CC
5CD
5CE
5CF
5CG
5CH
5CI
5CJ
5DC
5DD
5DE
5DF
5DG
5DH
5DI
5DJ
5EC
5ED
5EE
5EF
5EG
5EH
5FC
5FD
5FE
5FF
5FG
5FH
5GG
5GH

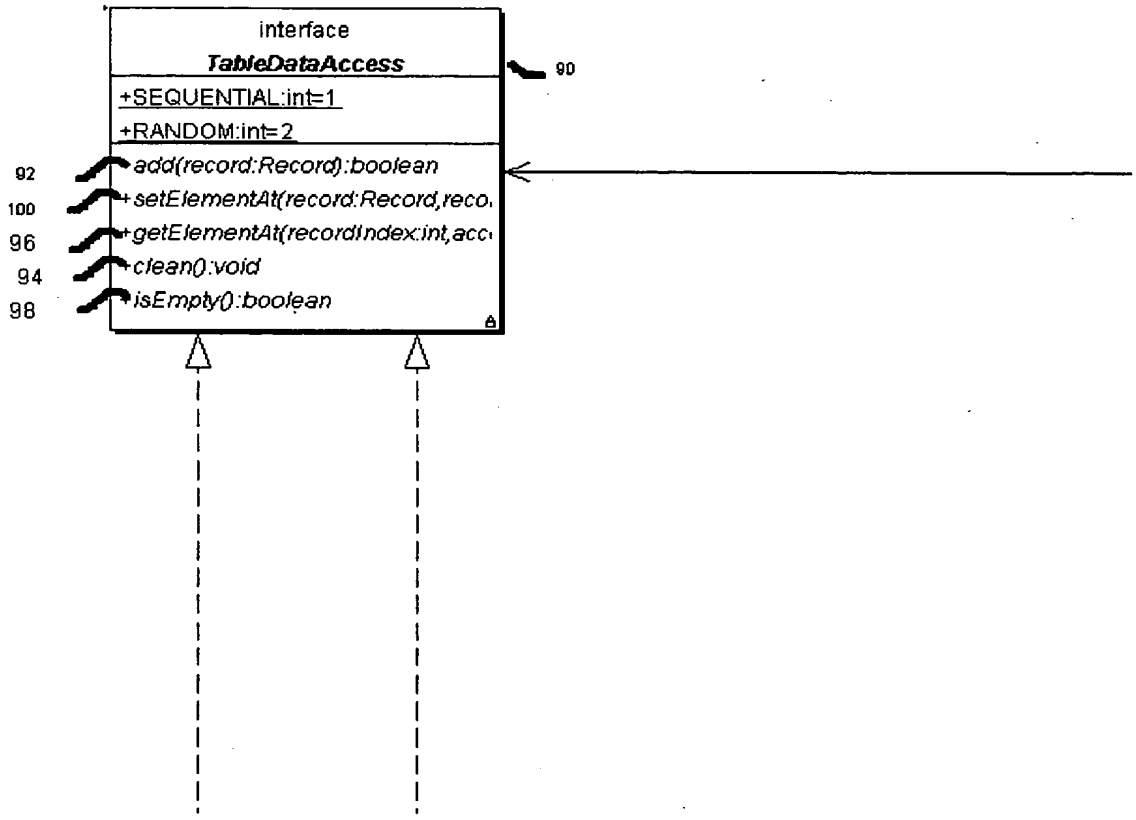

interface
TableDataAccess
90
+SEQUENTIAL:int=1
+RANDOM:int=2
92
add(record:Record):boolean
100
+setElementAt(record:Record,reco
96
+getElementAt(recordIndex:int,acc
94
+clean():void
98
+isEmpty():boolean

Fig. 5AA

Fig. 5AB

Fig. 5AC

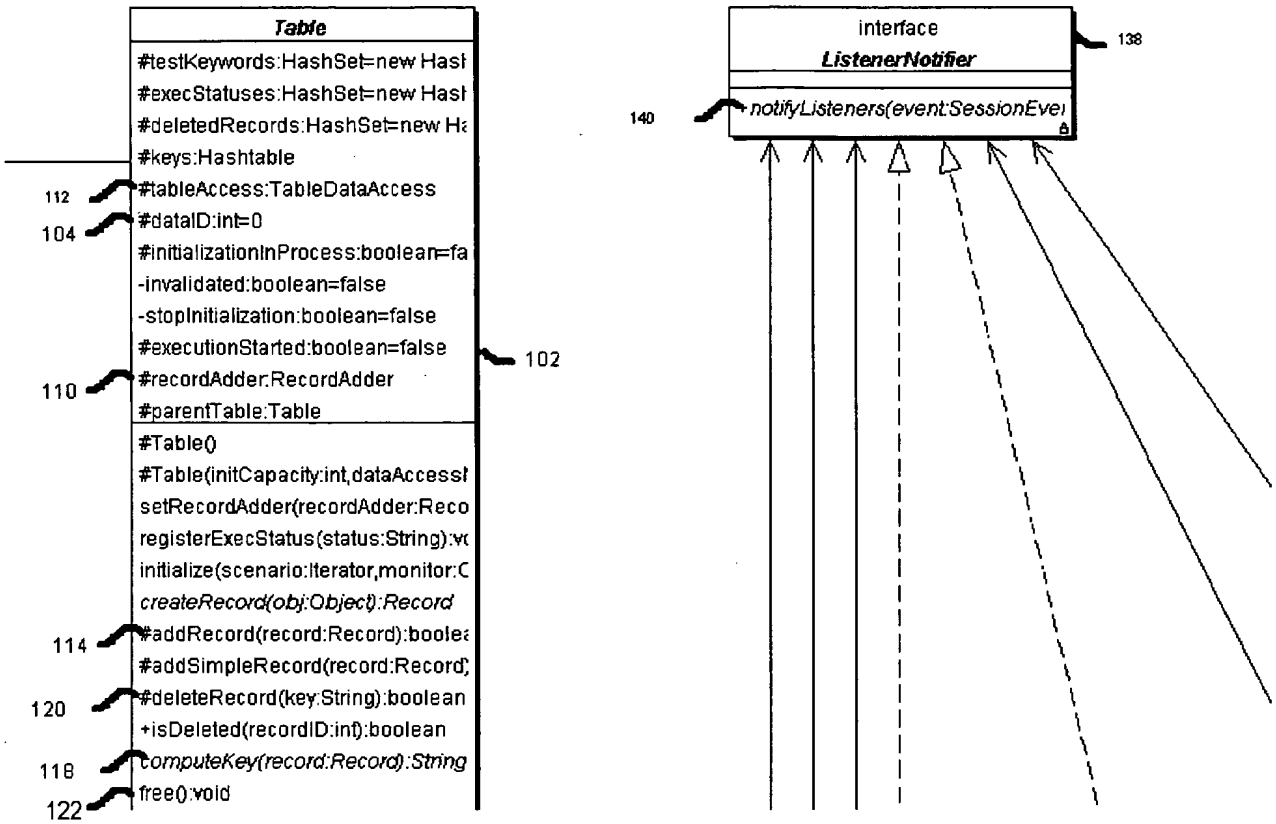


Table
#testKeywords:HashSet=new Hast
#execStatuses:HashSet=new Hast
#deletedRecords:HashSet=new Ha
#keys:Hashtable
#tableAccess:TableDataAccess
#dataID:int=0
#initializationInProcess:boolean=fa
-invalidated:boolean=false
-stopInitialization:boolean=false
#executionStarted:boolean=false
#recordAdder:RecordAdder
#parentTable:Table
#Table()
#Table(initCapacity:int,dataAccessI
setRecordAdder(recordAdder:Reco
registerExecStatus(status:String):v
initialize(scenario:Iterator,monitor:C
createRecord(obj:Object):Record
#addRecord(record:Record):boolea
#addSimpleRecord(record:Record)
#deleteRecord(key:String):boolean
+isDeleted(recordID:int):boolean
computeKey(record:Record):String
free():void
112
104
110
102
114
120
118
122
interface
ListenerNotifier
+notifyListeners(event:SessionEve
138
140

Fig. 5AD

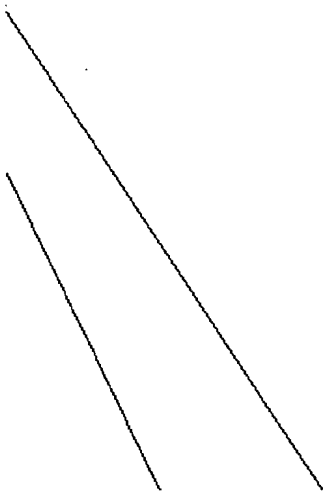


Fig. 5AE

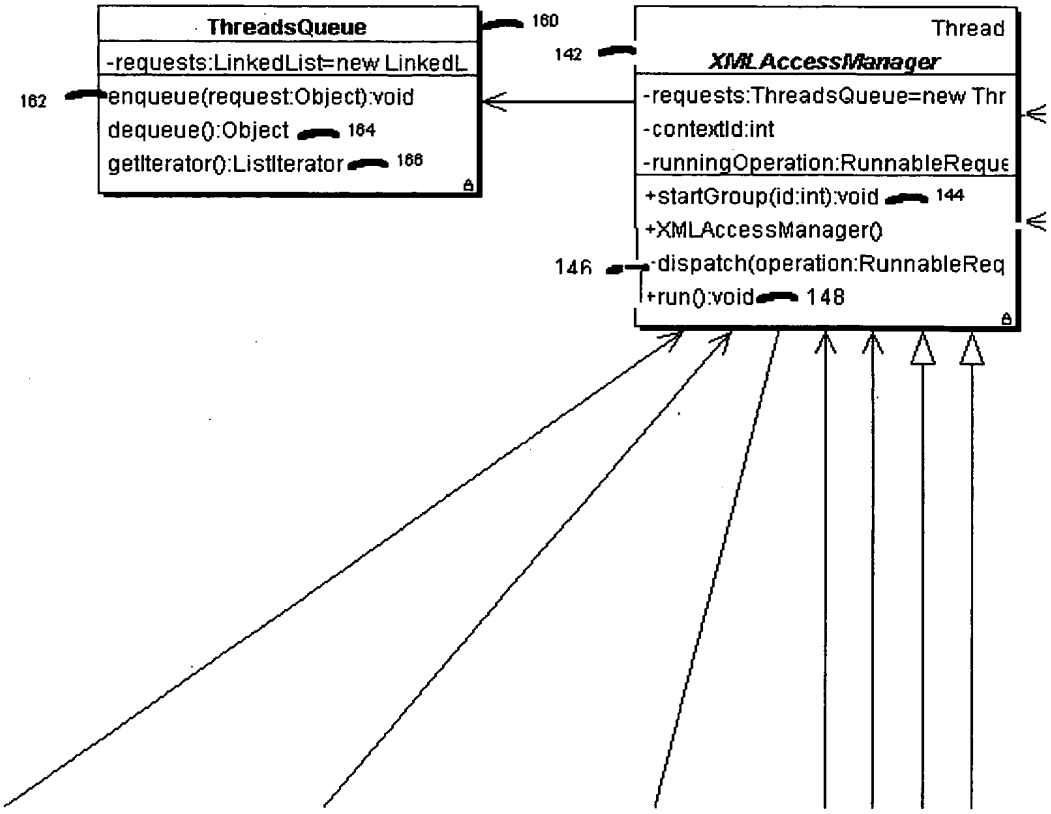

ThreadsQueue
-requests:LinkedList=new LinkedL
enqueue(request:Object):void
dequeue():Object
getIterator():ListIterator
160
162
164
166
Thread
142
XMLAccessManager
-requests:ThreadsQueue=new Thr
-contextId:int
-runningOperation:RunnableReque
+startGroup(id:int):void
+XMLAccessManager()
-dispatch(operation:RunnableReq
+run():void
144
146
148

Fig. 5AF

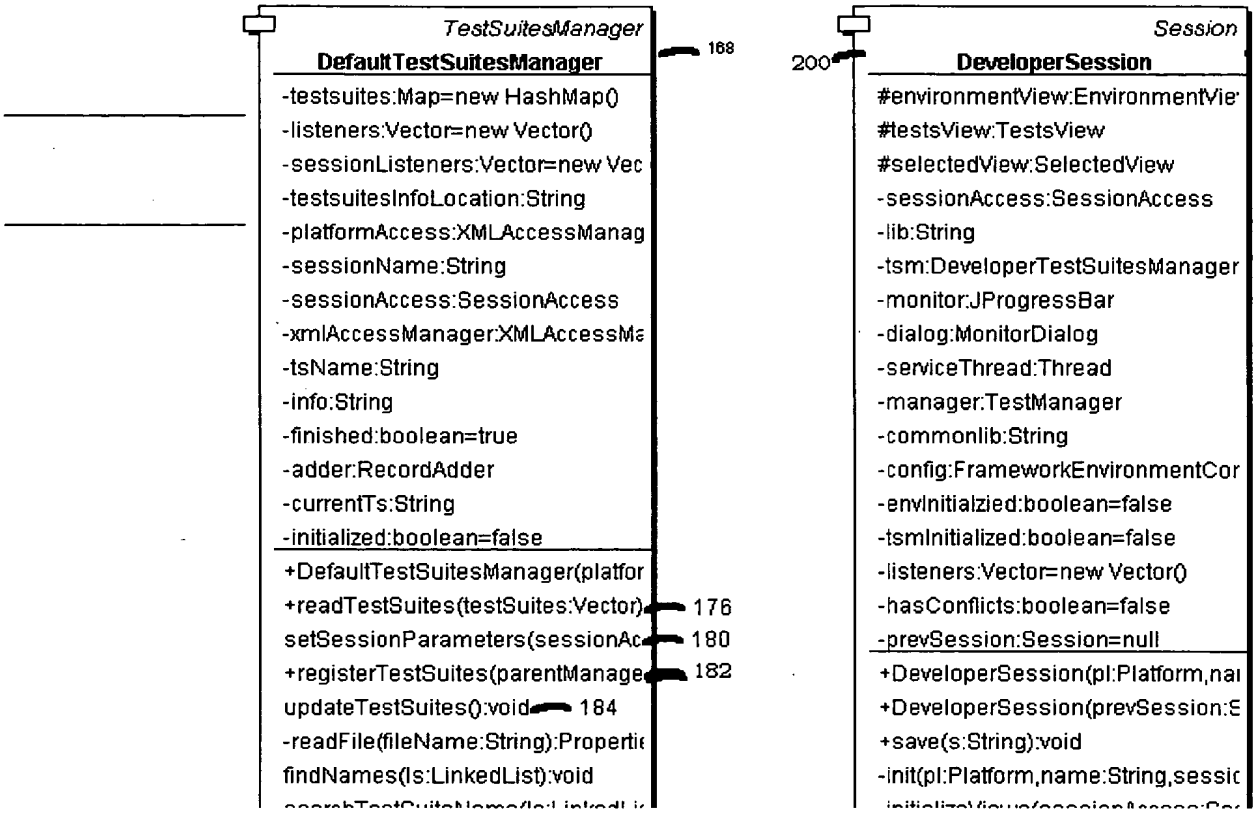

TestSuitesManager
DefaultTestSuitesManager
168
-testsuites:Map=new HashMap()
-listeners:Vector=new Vector()
-sessionListeners:Vector=new Vec
-testsuitesInfoLocation:String
-platformAccess:XMLAccessManag
-sessionName:String
-sessionAccess:SessionAccess
-xmlAccessManager:XMLAccessMa
-tsName:String
-info:String
-finished:boolean=true
-adder:RecordAdder
-currentTs:String
-initialized:boolean=false
+DefaultTestSuitesManager(platfor
+readTestSuites(testSuites:Vector)
176
setSessionParameters(sessionAc
180
+registerTestSuites(parentManage
182
updateTestSuites():void
184
-readFile(fileName:String):Properti
findNames(ls:LinkedList):void
200
Session
DeveloperSession
#environmentView:EnvironmentVie
#testsView:TestsView
#selectedView:SelectedView
-sessionAccess:SessionAccess
-lib:String
-tsm:DeveloperTestSuitesManager
-monitor:JProgressBar
-dialog:MonitorDialog
-serviceThread:Thread
-manager:TestManager
-commonlib:String
-config:FrameworkEnvironmentCor
-envInitialzied:boolean=false
-tsmInitialized:boolean=false
-listeners:Vector=new Vector()
-hasConflicts:boolean=false
-prevSession:Session=null
+DeveloperSession(pl:Platform,nai
+DeveloperSession(prevSession:S
+save(s:String):void
-init(pl:Platform,name:String,sessic

Fig. 5AG

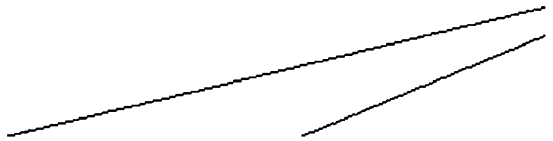


Fig. 5AH

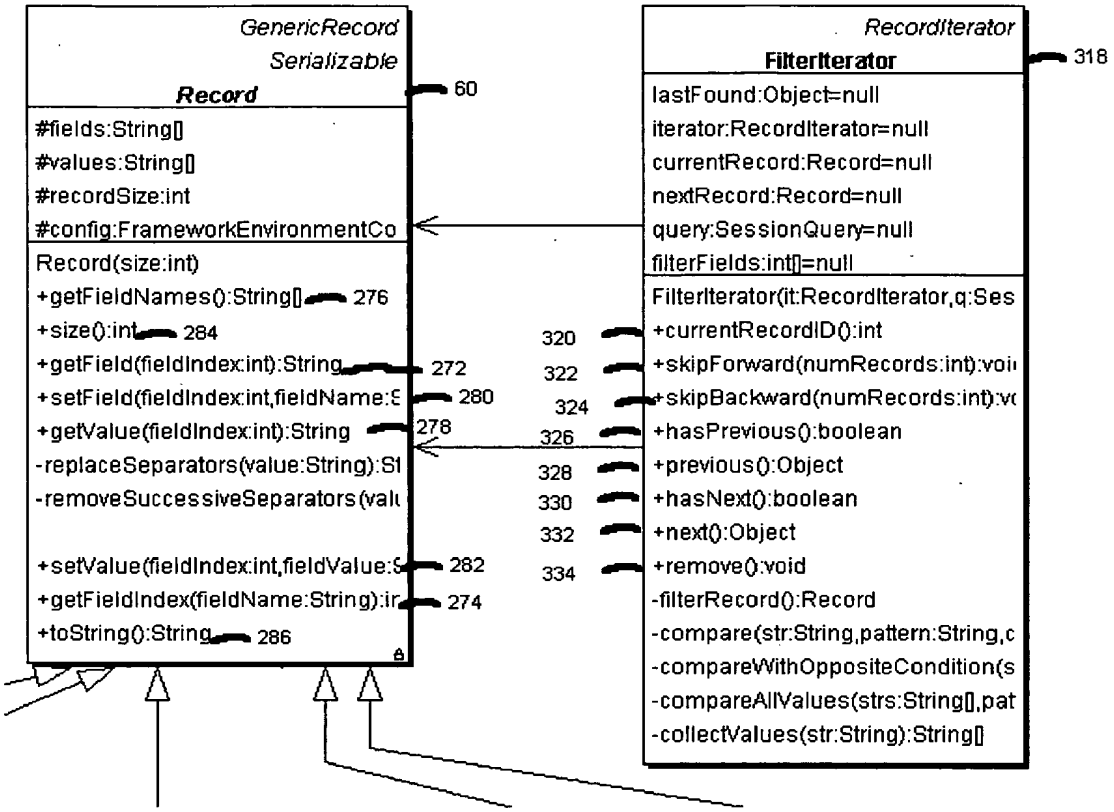

GenericRecord
Serializable
Record
60
#fields:String[]
#values:String[]
#recordSize:int
#config:FrameworkEnvironmentCo
Record(size:int)
+getFieldNames():String[]
276
+size():int
284
+getField(fieldIndex:int):String
272
+setField(fieldIndex:int,fieldName:S
280
+getValue(fieldIndex:int):String
278
-replaceSeparators(value:String):St
-removeSuccessiveSeparators(valu
+setValue(fieldIndex:int,fieldValue:S
282
+getFieldIndex(fieldName:String):in
274
+toString():String
286
RecordIterator
FilterIterator
318
lastFound:Object=null
iterator:RecordIterator=null
currentRecord:Record=null
nextRecord:Record=null
query:SessionQuery=null
filterFields:int[]=null
FilterIterator(it:RecordIterator,q:Ses
320
+currentRecordID():int
322
+skipForward(numRecords:int):voi
324
+skipBackward(numRecords:int):v
326
+hasPrevious():boolean
328
+previous():Object
330
+hasNext():boolean
332
+next():Object
334
+remove():void
-filterRecord():Record
-compare(str:String,pattern:String,c
-compareWithOppositeCondition(s
-compareAllValues(strs:String[],pat
-collectValues(str:String):String[]

Fig. 5AI

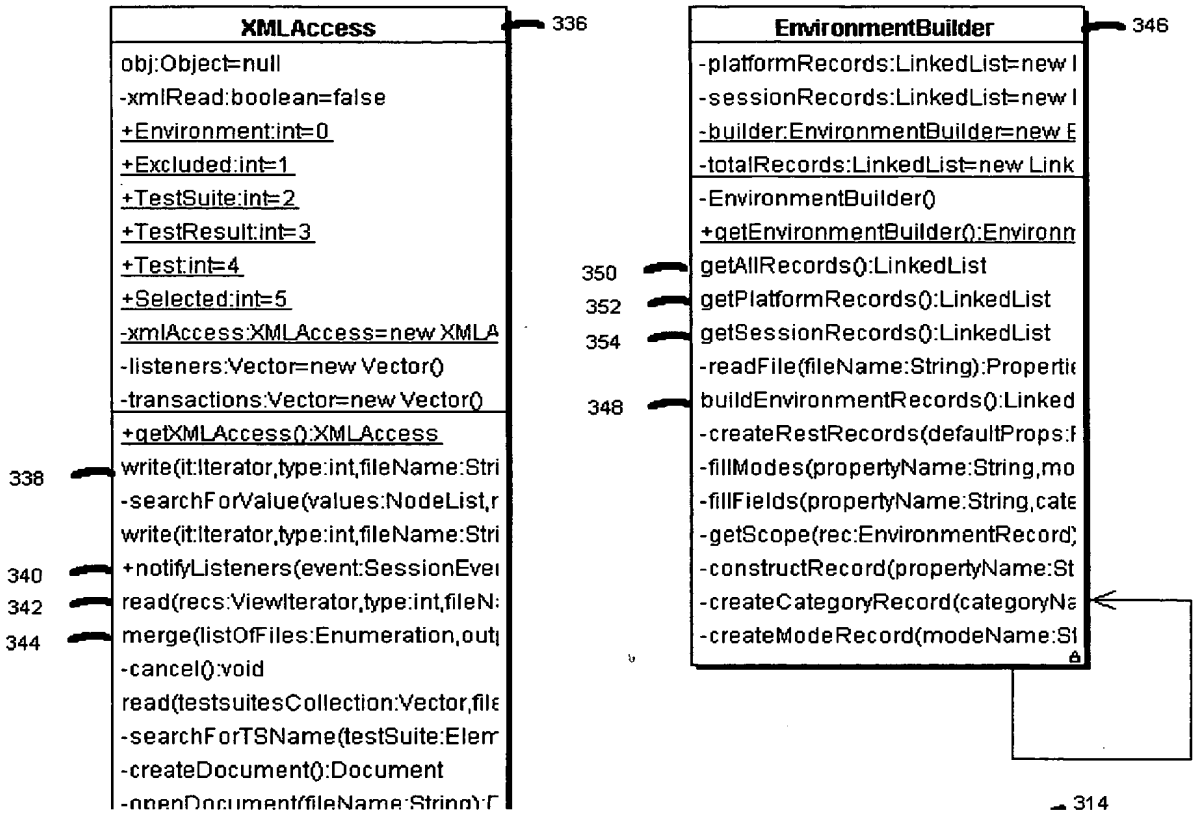

XMLAccess
336
obj:Object=null
-xmlRead:boolean=false
+Environment:int=0
+Excluded:int=1
+TestSuite:int=2
+TestResult:int=3
+Test:int=4
+Selected:int=5
-xmlAccess:XMLAccess=new XMLA
-listeners:Vector=new Vector()
-transactions:Vector=new Vector()
+getXMLAccess():XMLAccess
338
write(it:Iterator,type:int,fileName:Stri
-searchForValue(values:NodeList,r
write(it:Iterator,type:int,fileName:Stri
340
+notifyListeners(event:SessionEve
342
read(recs:ViewIterator,type:int,fileN:
344
merge(listOfFiles:Enumeration,out
-cancel():void
read(testsuitesCollection:Vector,file
-searchForTSName(testSuite:Elem
-createDocument():Document
EnvironmentBuilder
346
-platformRecords:LinkedList=new I
-sessionRecords:LinkedList=new I
-builder:EnvironmentBuilder=new E
-totalRecords:LinkedList=new Link
-EnvironmentBuilder()
+getEnvironmentBuilder():Environn
350
getAllRecords():LinkedList
352
getPlatformRecords():LinkedList
354
getSessionRecords():LinkedList
-readFile(fileName:String):Properti
348
buildEnvironmentRecords():Linked
-createRestRecords(defaultProps:I
-fillModes(propertyName:String,mo
-fillFields(propertyName:String,cate
-getScope(rec:EnvironmentRecord)
-constructRecord(propertyName:St
-createCategoryRecord(categoryNa
-createModeRecord(modeName:St
314

Fig. 5AJ

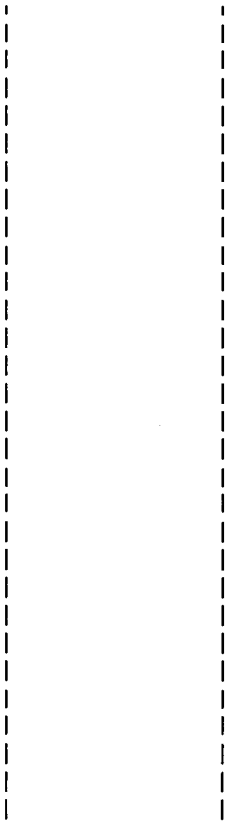


Fig. 5BA

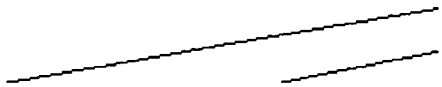


Fig. 5BB

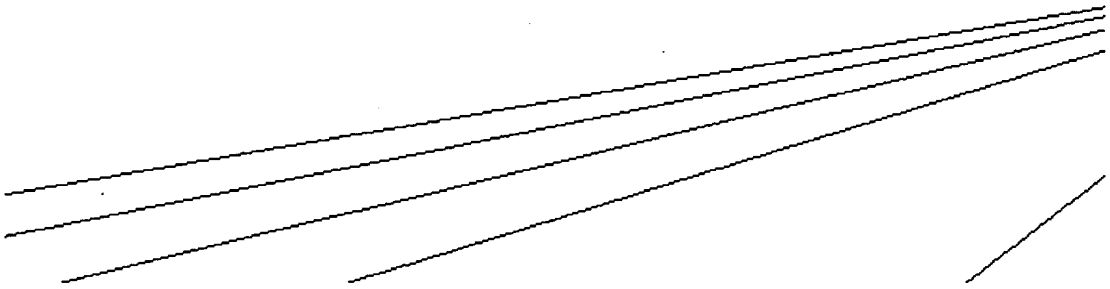


Fig. 5BC

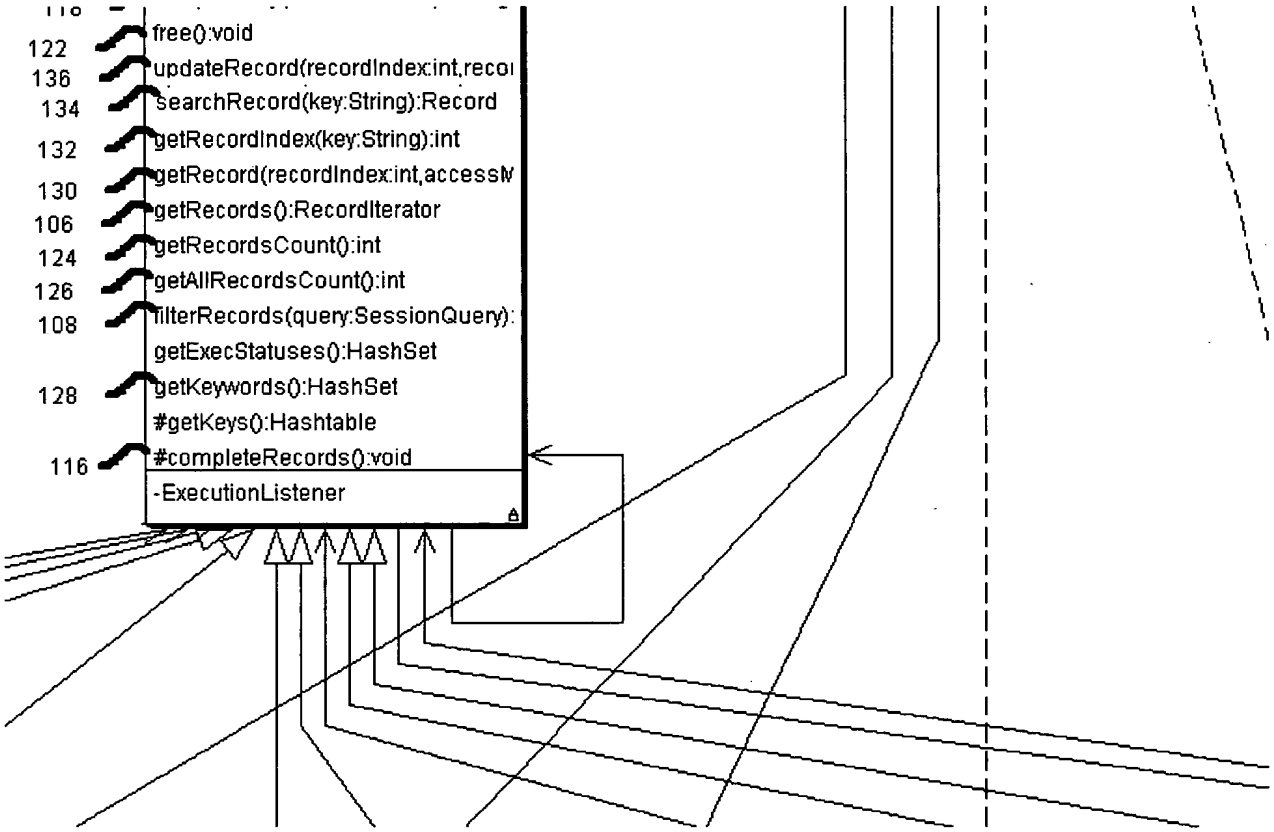

122
136
134
132
130
106
124
126
108
128
116
free():void
updateRecord(recordIndex:int,recor
searchRecord(key:String):Record
getRecordIndex(key:String):int
getRecord(recordIndex:int,accessM
getRecords():RecordIterator
getRecordsCount():int
getAllRecordsCount():int
filterRecords(query:SessionQuery):
getExecStatuses():HashSet
getKeywords():HashSet
#getKeys():Hashtable
#completeRecords():void
-ExecutionListener

Fig. 5BD

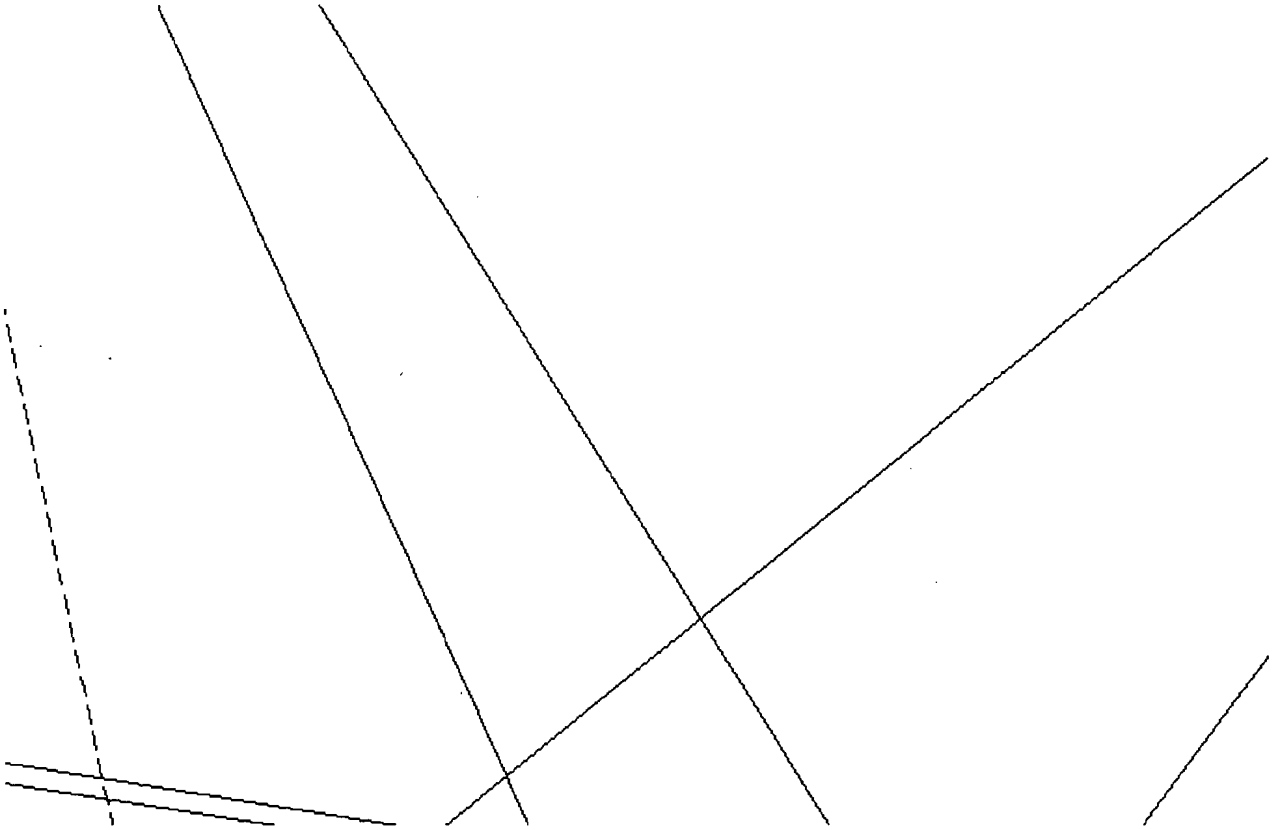


Fig. 5BE

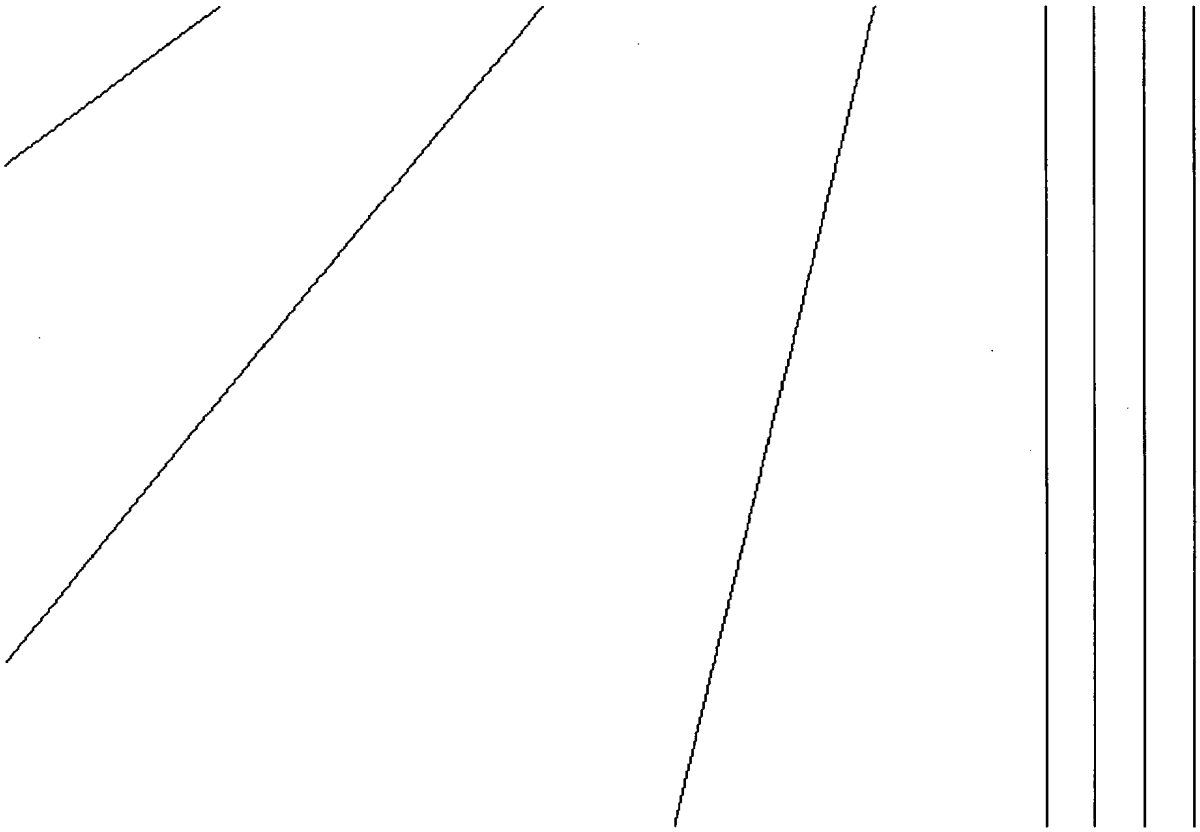


Fig. 5BF

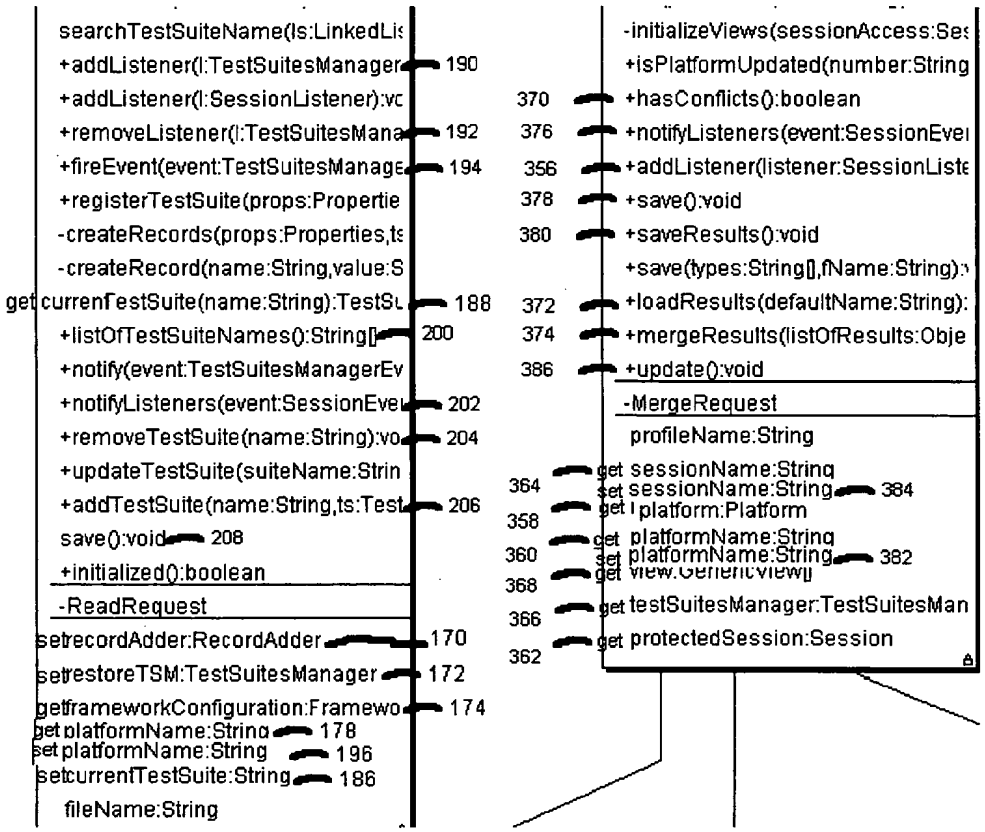

searchTestSuiteName(ls:LinkedLis
+addListener(l:TestSuitesManager
190
+addListener(l:SessionListener):vc
+removeListener(l:TestSuitesMana
192
+fireEvent(event:TestSuitesManage
194
+registerTestSuite(props:Propertie
-createRecords(props:Properties,ts
-createRecord(name:String,value:S
get currentTestSuite(name:String):TestSu
188
+listOfTestSuiteNames():String[]
200
+notify(event:TestSuitesManagerEv
+notifyListeners(event:SessionEve
202
+removeTestSuite(name:String):vo
204
+updateTestSuite(suiteName:Strin
+addTestSuite(name:String,ts:Test
206
save():void
208
+initialized():boolean
-ReadRequest
set recordAdder:RecordAdder
170
set restoreTSM:TestSuitesManager
172
getframeworkConfiguration:Framewo
174
get platformName:String
178
set platformName:String
196
set currentTestSuite:String
186
fileName:String
-initializeViews(sessionAccess:Ses
+isPlatformUpdated(number:String
370
+hasConflicts():boolean
376
+notifyListeners(event:SessionEve
356
+addListener(listener:SessionListe
378
+save():void
380
+saveResults():void
+save(types:String[],fName:String):
372
+loadResults(defaultName:String):
374
+mergeResults(listOfResults:Obje
386
+update():void
-MergeRequest
profileName:String
get sessionName:String
364
set sessionName:String
384
get platform:Platform
358
get platformName:String
360
set platformName:String
382
get view:GenericView
368
get testSuitesManager:TestSuitesMan
366
get protectedSession:Session
362

Fig. 5BG

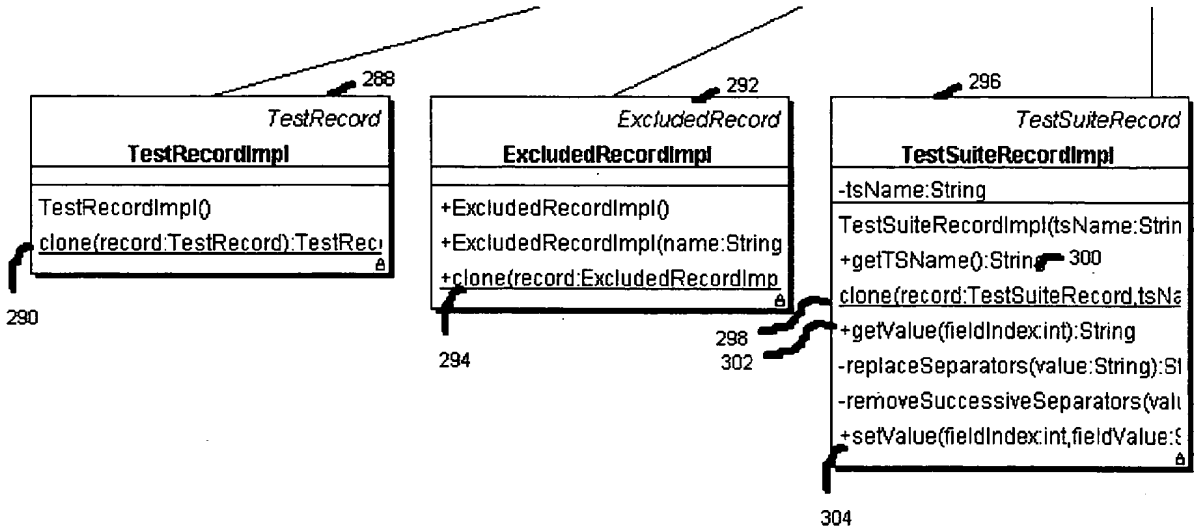

288
TestRecord
TestRecordImpl
TestRecordImpl()
clone(record:TestRecord):TestRec
290
292
ExcludedRecord
ExcludedRecordImpl
+ExcludedRecordImpl()
+ExcludedRecordImpl(name:String
+clone(record:ExcludedRecordImp
294
296
TestSuiteRecord
TestSuiteRecordImpl
-tsName:String
TestSuiteRecordImpl(tsName:Strin
+getTSName():String
300
clone(record:TestSuiteRecord,tsNa
+getValue(fieldIndex:int):String
-replaceSeparators(value:String):St
-removeSuccessiveSeparators(valu
+setValue(fieldIndex:int,fieldValue:
298
302
304

Fig. 5BH

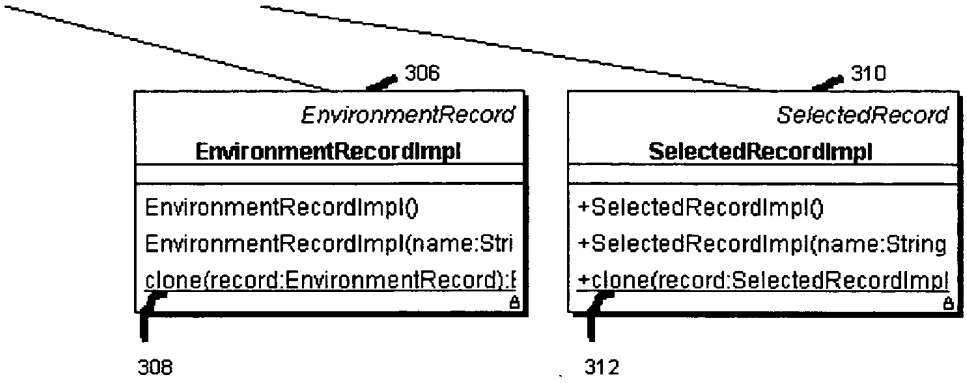

306
EnvironmentRecord
EnvironmentRecordImpl
EnvironmentRecordImpl()
EnvironmentRecordImpl(name:Stri
clone(record:EnvironmentRecord):E
308
310
SelectedRecord
SelectedRecordImpl
+SelectedRecordImpl()
+SelectedRecordImpl(name:String
+clone(record:SelectedRecordImpl
312

Fig. 5BI

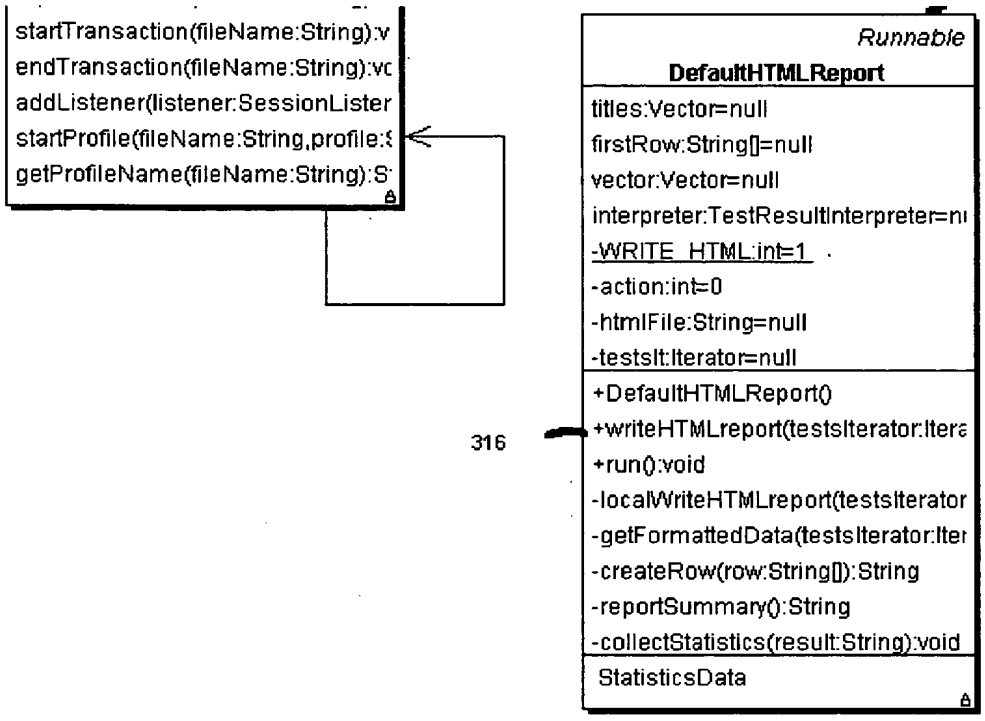

startTransaction(fileName:String):v
endTransaction(fileName:String):vc
addListener(listener:SessionLister
startProfile(fileName:String,profile:
getProfileName(fileName:String):S
Runnable
DefaultHTMLReport
titles:Vector=null
firstRow:String[]=null
vector:Vector=null
interpreter:TestResultInterpreter=nu
-WRITE_HTML:int=1
-action:int=0
-htmlFile:String=null
-testsIt:Iterator=null
+DefaultHTMLReport()
+writeHTMLreport(testsIterator:Itera
+run():void
-localWriteHTMLreport(testsIterator
-getFormattedData(testsIterator:Iter
-createRow(row:String[]):String
-reportSummary():String
-collectStatistics(result:String):void
StatisticsData
316

Fig. 5BJ

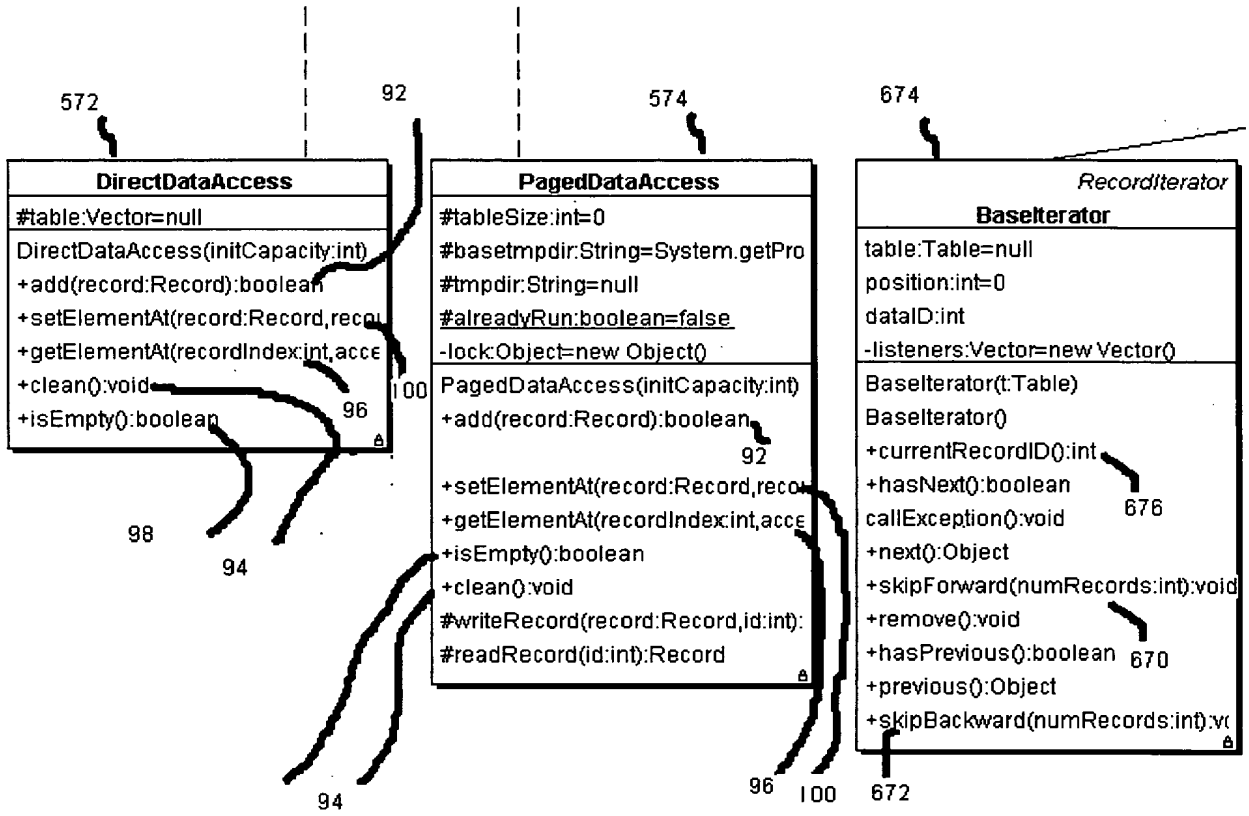

572
92
574
674
DirectDataAccess
#table:Vector=null
DirectDataAccess(initCapacity:int)
+add(record:Record):boolean
+setElementAt(record:Record,recu
+getElementAt(recordIndex:int,acce
+clean():void
+isEmpty():boolean
100
96
98
94
PagedDataAccess
#tableSize:int=0
#basetmpdir:String=System.getPro
#tmpdir:String=null
#alreadyRun:boolean=false
-lock:Object=new Object()
PagedDataAccess(initCapacity:int)
+add(record:Record):boolean
92
+setElementAt(record:Record,reco
+getElementAt(recordIndex:int,acce
+isEmpty():boolean
+clean():void
#writeRecord(record:Record,id:int):
#readRecord(id:int):Record
94
96
100
RecordIterator
BaseIterator
table:Table=null
position:int=0
dataID:int
-listeners:Vector=new Vector()
BaseIterator(t:Table)
BaseIterator()
+currentRecordID():int
+hasNext():boolean
676
callException():void
+next():Object
+skipForward(numRecords:int):void
+remove():void
+hasPrevious():boolean
670
+previous():Object
+skipBackward(numRecords:int):v
672

Fig. 5CA

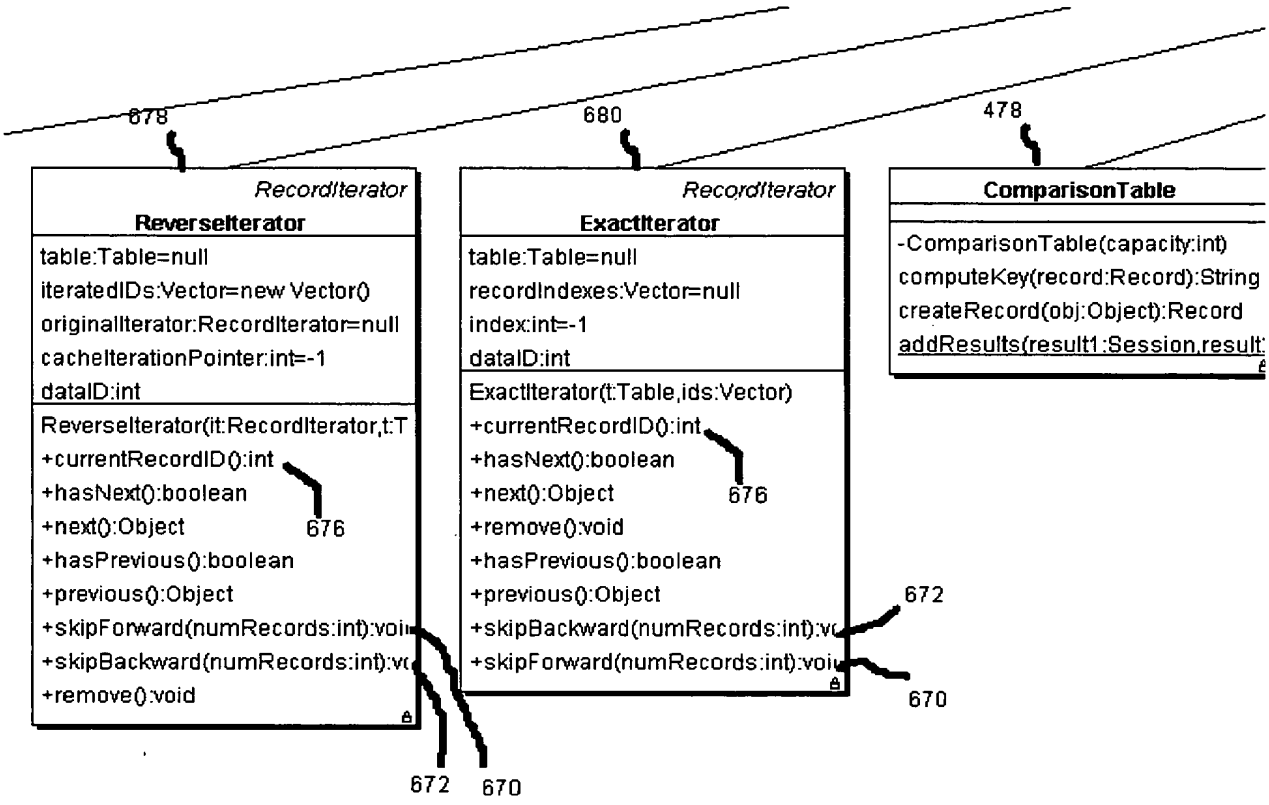

678
680
478
RecordIterator
ReverseIterator
table:Table=null
iteratedIDs:Vector=new Vector()
originalIterator:RecordIterator=null
cacheIterationPointer:int=-1
dataID:int
ReverseIterator(it:RecordIterator,t:T
+currentRecordID():int
+hasNext():boolean
+next():Object
+hasPrevious():boolean
+previous():Object
+skipForward(numRecords:int):voi
+skipBackward(numRecords:int):vo
+remove():void
676
672
670
RecordIterator
ExactIterator
table:Table=null
recordIndexes:Vector=null
index:int=-1
dataID:int
ExactIterator(t:Table,ids:Vector)
+currentRecordID():int
+hasNext():boolean
+next():Object
+remove():void
+hasPrevious():boolean
+previous():Object
+skipBackward(numRecords:int):vo
+skipForward(numRecords:int):voi
676
672
670
ComparisonTable
-ComparisonTable(capacity:int)
computeKey(record:Record):String
createRecord(obj:Object):Record
addResults(result1:Session,result:

Fig. 5CB

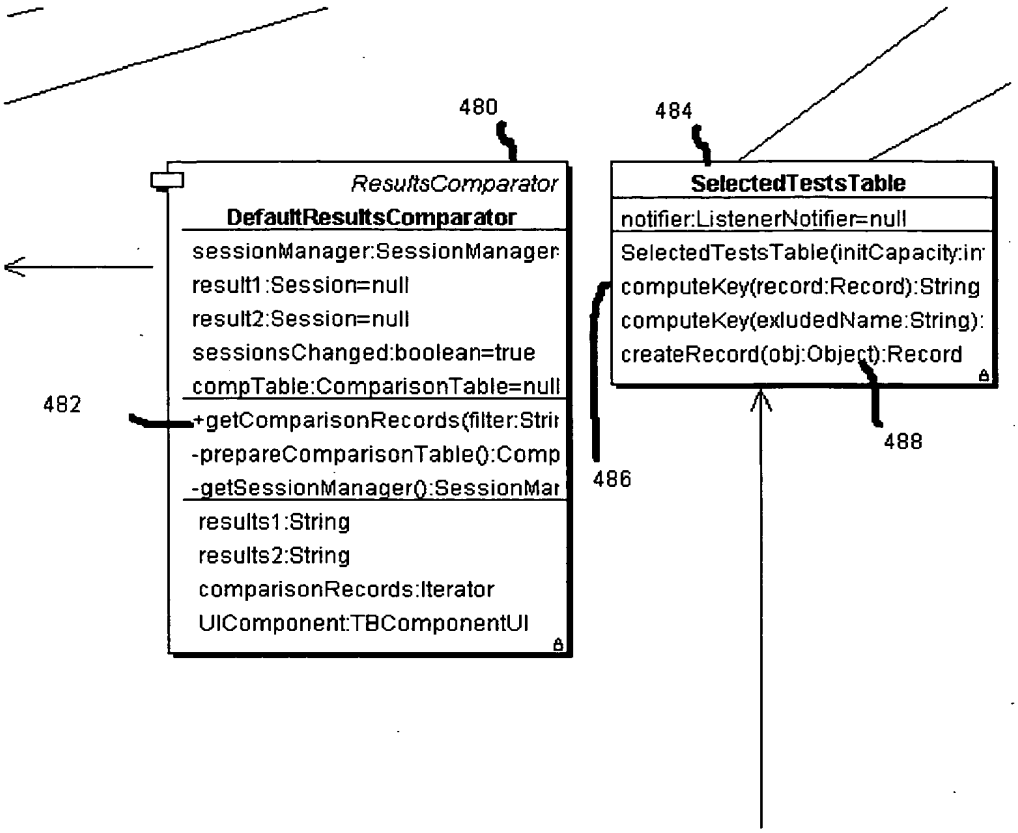

480
484
ResultsComparator
DefaultResultsComparator
sessionManager:SessionManager
result1:Session=null
result2:Session=null
sessionsChanged:boolean=true
compTable:ComparisonTable=null
+getComparisonRecords(filter:Strir
-prepareComparisonTable():Comp
-getSessionManager():SessionMar
results1:String
results2:String
comparisonRecords:Iterator
UIComponent:TBComponentUI
SelectedTestsTable
notifier:ListenerNotifier=null
SelectedTestsTable(initCapacity:in
computeKey(record:Record):String
computeKey(excludedName:String):
createRecord(obj:Object):Record
482
486
488

Fig. 5CC

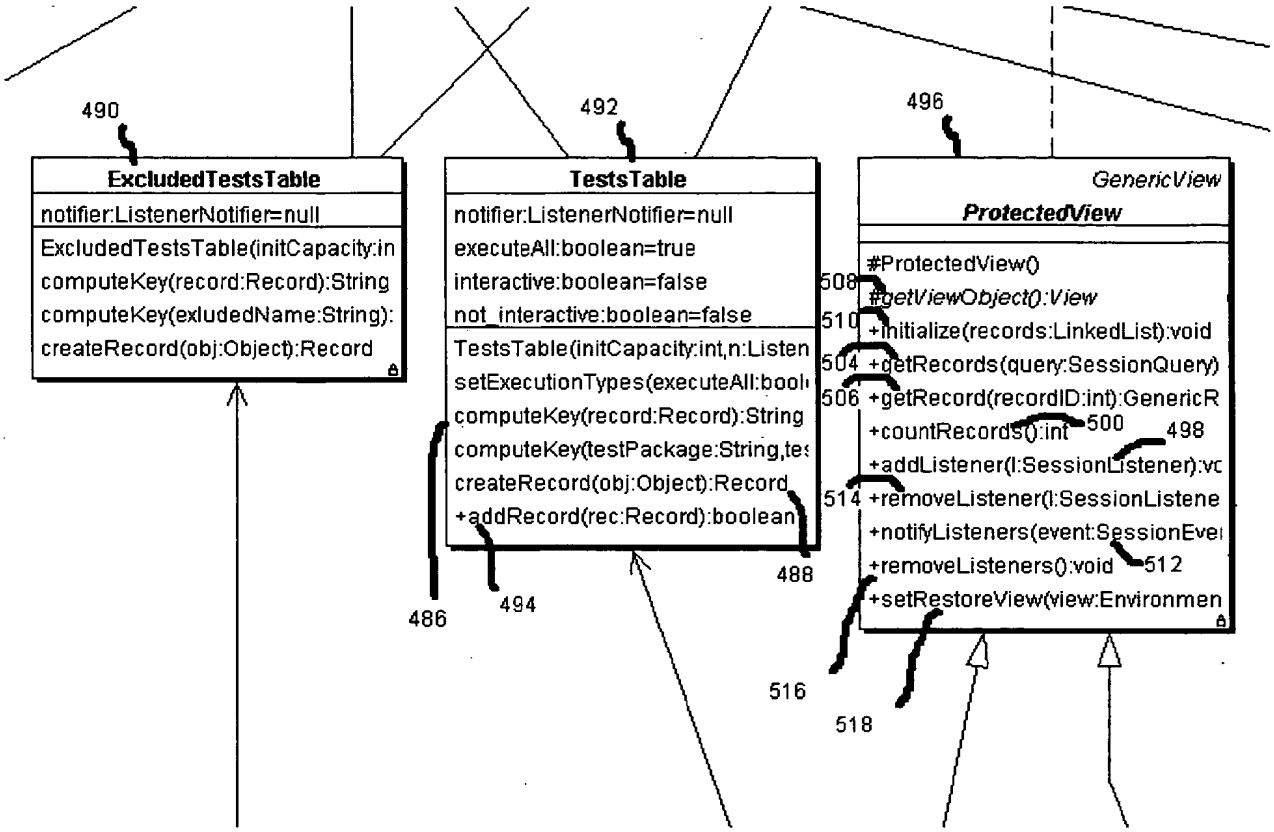

490
ExcludedTestsTable
notifier:ListenerNotifier=null
ExcludedTestsTable(initCapacity:in
computeKey(record:Record):String
computeKey(exludedName:String):
createRecord(obj:Object):Record
492
TestsTable
notifier:ListenerNotifier=null
executeAll:boolean=true
interactive:boolean=false
not_interactive:boolean=false
TestsTable(initCapacity:int,n:Listen
setExecutionTypes(executeAll:bool
computeKey(record:Record):String
computeKey(testPackage:String,te
createRecord(obj:Object):Record
+addRecord(rec:Record):boolean
496
GenericView
ProtectedView
#ProtectedView()
#getViewObject():View
+initialize(records:LinkedList):void
+getRecords(query:SessionQuery)
+getRecord(recordID:int):GenericR
+countRecords():int
+addListener(l:SessionListener):vc
+removeListener(l:SessionListene
+notifyListeners(event:SessionEve
+removeListeners():void
+setRestoreView(view:Environmen
508
510
504
506
500
498
514
512
488
486
494
516
518

Fig. 5CD

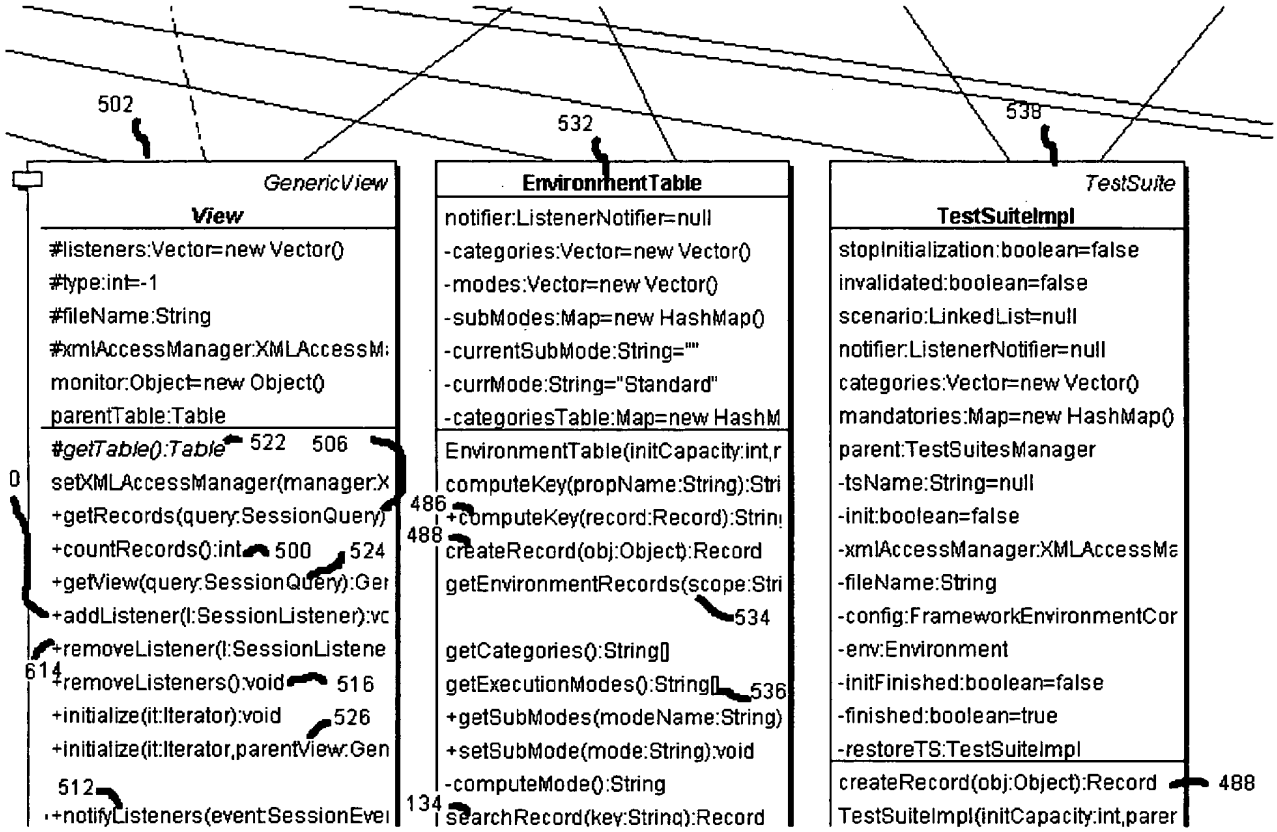

502
532
538
GenericView
View
#listeners:Vector=new Vector()
#type:int=-1
#fileName:String
#xmlAccessManager:XMLAccessM
monitor:Object=new Object()
parentTable:Table
#getTable():Table
522
506
0
setXMLAccessManager(manager:X
+getRecords(query:SessionQuery)
+countRecords():int
500
524
+getView(query:SessionQuery):Ge
+addListener(l:SessionListener):vc
+removeListener(l:SessionListene
614
+removeListeners():void
516
+initialize(it:Iterator):void
526
+initialize(it:Iterator,parentView:Gen
512
+notifyListeners(event:SessionEve
EnvironmentTable
notifier:ListenerNotifier=null
-categories:Vector=new Vector()
-modes:Vector=new Vector()
-subModes:Map=new HashMap()
-currentSubMode:String=""
-currMode:String="Standard"
-categoriesTable:Map=new HashM
EnvironmentTable(initCapacity:int,r
computeKey(propName:String):Stri
486
+computeKey(record:Record):Strin
488
createRecord(obj:Object):Record
getEnvironmentRecords(scope:Stri
534
getCategories():String[]
getExecutionModes():String[]
536
+getSubModes(modeName:String)
+setSubMode(mode:String):void
-computeMode():String
134
searchRecord(key:String):Record
TestSuite
TestSuiteImpl
stopInitialization:boolean=false
invalidated:boolean=false
scenario:LinkedList=null
notifier:ListenerNotifier=null
categories:Vector=new Vector()
mandatories:Map=new HashMap()
parent:TestSuitesManager
-tsName:String=null
-init:boolean=false
-xmlAccessManager:XMLAccessMa
-fileName:String
-config:FrameworkEnvironmentCor
-env:Environment
-initFinished:boolean=false
-finished:boolean=true
-restoreTS:TestSuiteImpl
createRecord(obj:Object):Record
488
TestSuiteImpl(initCapacity:int,parer

Fig. 5CE

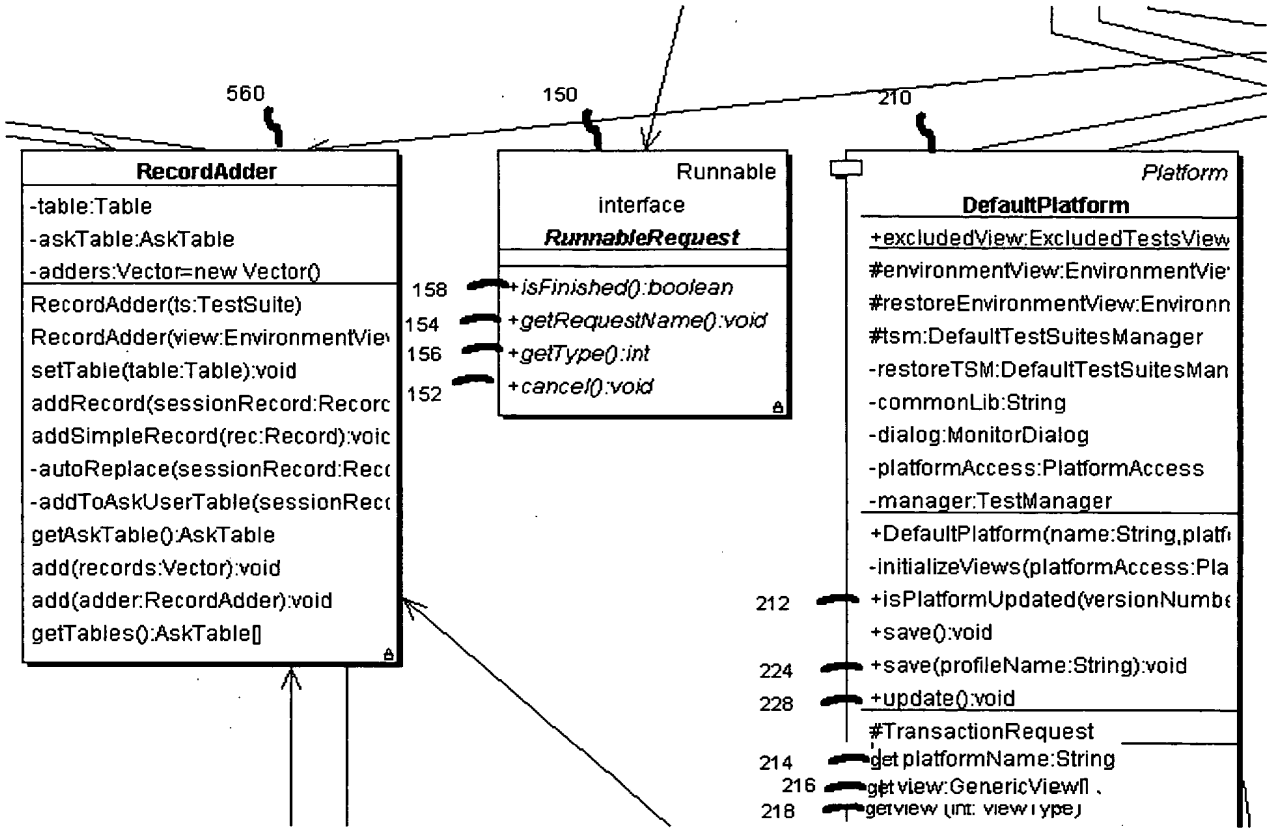

560
150
210
RecordAdder
-table:Table
-askTable:AskTable
-adders:Vector=new Vector()
RecordAdder(ts:TestSuite)
RecordAdder(view:EnvironmentVie
setTable(table:Table):void
addRecord(sessionRecord:Recorc
addSimpleRecord(rec:Record):voic
-autoReplace(sessionRecord:Rec
-addToAskUserTable(sessionRec
getAskTable():AskTable
add(records:Vector):void
add(adder:RecordAdder):void
getTables():AskTable[]
Runnable
interface
RunnableRequest
158
+isFinished():boolean
154
+getRequestName():void
156
+getType():int
152
+cancel():void
Platform
DefaultPlatform
+excludedView:ExcludedTestsView
#environmentView:EnvironmentVie
#restoreEnvironmentView:Environn
#tsm:DefaultTestSuitesManager
-restoreTSM:DefaultTestSuitesMan
-commonLib:String
-dialog:MonitorDialog
-platformAccess:PlatformAccess
-manager:TestManager
+DefaultPlatform(name:String,platf
-initializeViews(platformAccess:Pla
212
+isPlatformUpdated(versionNumbe
+save():void
224
+save(profileName:String):void
228
+update():void
#TransactionRequest
214
getPlatformName:String
216
getView:GenericView[]
218
getView(int: viewType)

Fig. 5CF

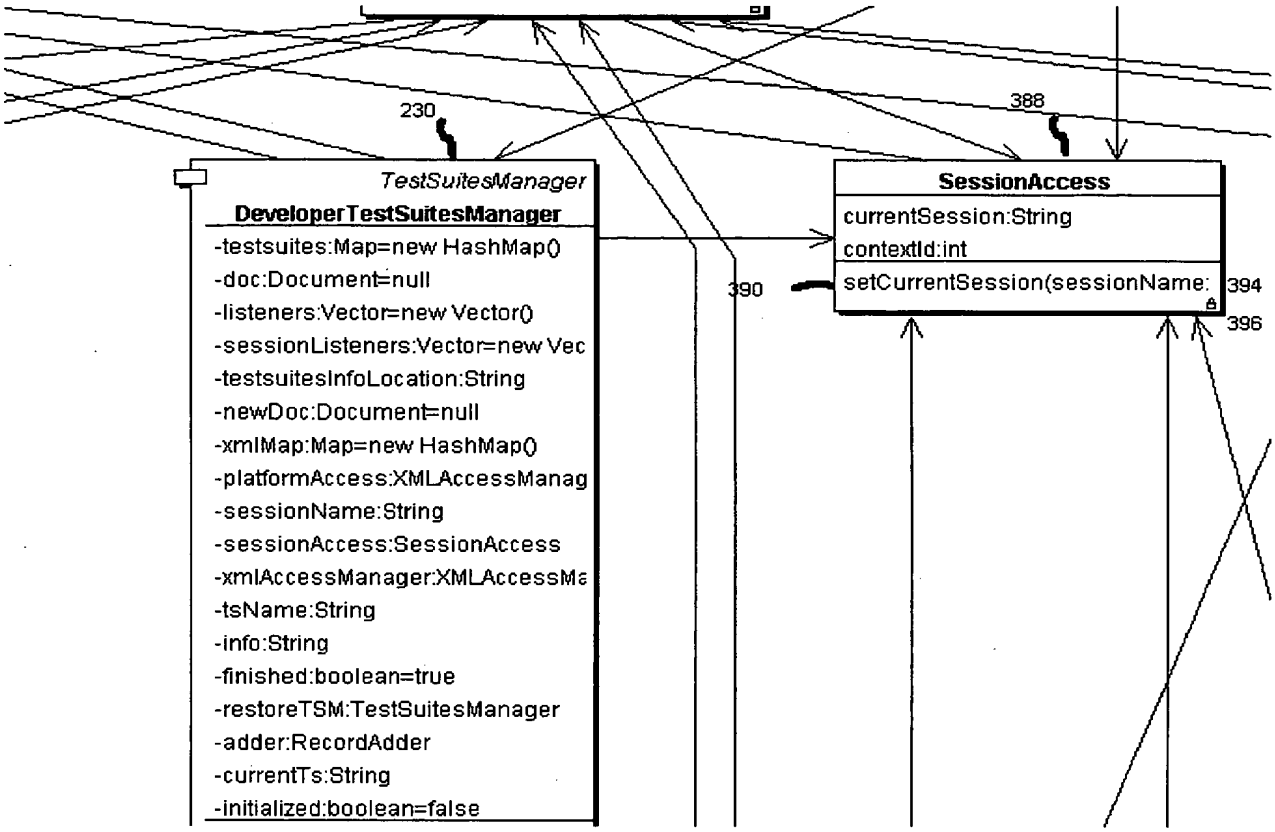

230
388
TestSuitesManager
DeveloperTestSuitesManager
-testsuites:Map=new HashMap()
-doc:Document=null
-listeners:Vector=new Vector()
-sessionListeners:Vector=new Vec
-testsuitesInfoLocation:String
-newDoc:Document=null
-xmlMap:Map=new HashMap()
-platformAccess:XMLAccessManag
-sessionName:String
-sessionAccess:SessionAccess
-xmlAccessManager:XMLAccessMa
-tsName:String
-info:String
-finished:boolean=true
-restoreTSM:TestSuitesManager
-adder:RecordAdder
-currentTs:String
-initialized:boolean=false
390
SessionAccess
currentSession:String
contextId:int
setCurrentSession(sessionName:
394
396

Fig. 5CG

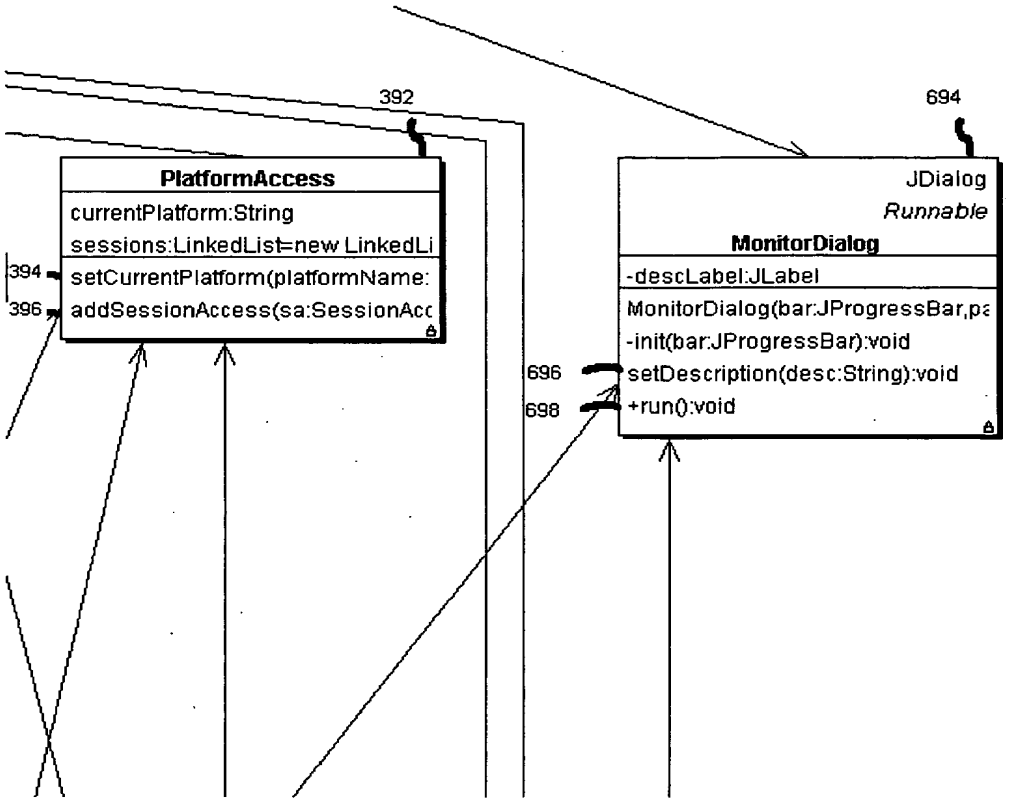

392
694
PlatformAccess
currentPlatform:String
sessions:LinkedList=new LinkedLi
394
setCurrentPlatform(platformName:
396
addSessionAccess(sa:SessionAcc
JDialog
Runnable
MonitorDialog
-descLabel:JLabel
MonitorDialog(bar:JProgressBar,pa
-init(bar:JProgressBar):void
696
setDescription(desc:String):void
698
+run():void

Fig. 5CH

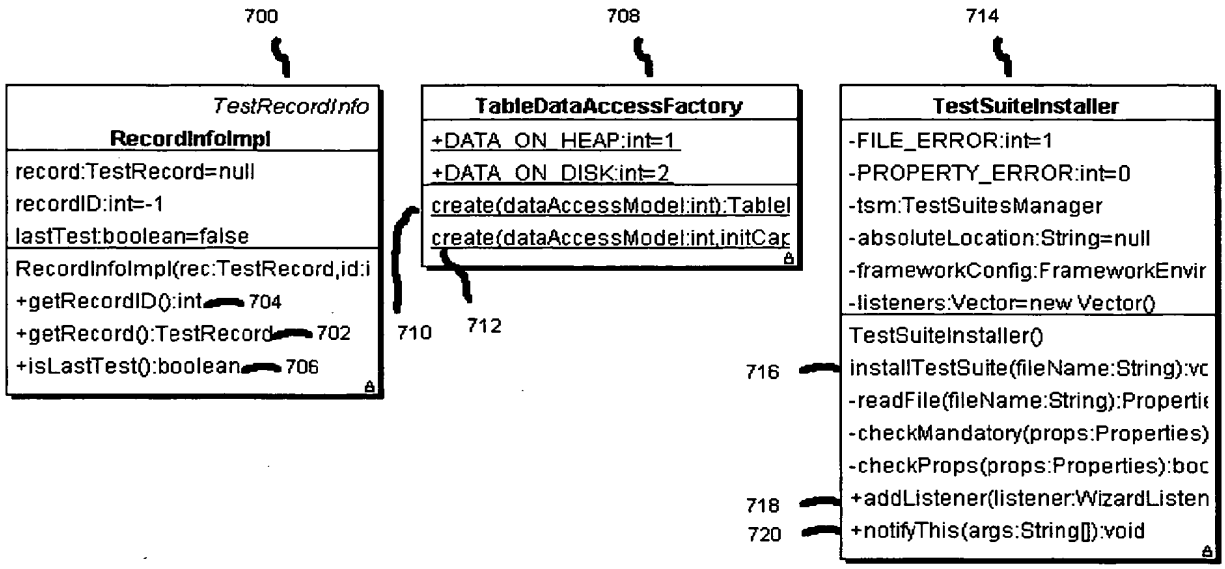

700
708
714
TestRecordInfo
RecordInfoImpl
record:TestRecord=null
recordID:int=-1
lastTest:boolean=false
RecordInfoImpl(rec:TestRecord,id:i
+getRecordID():int
+getRecord():TestRecord
+isLastTest():boolean
704
702
706
710
712
TableDataAccessFactory
+DATA_ON_HEAP:int=1
+DATA_ON_DISK:int=2
create(dataAccessModel:int):TableI
create(dataAccessModel:int,initCap
TestSuiteInstaller
-FILE_ERROR:int=1
-PROPERTY_ERROR:int=0
-tsm:TestSuitesManager
-absoluteLocation:String=null
-frameworkConfig:FrameworkEnvir
-listeners:Vector=new Vector()
TestSuiteInstaller()
installTestSuite(fileName:String):vc
-readFile(fileName:String):Properti
-checkMandatory(props:Properties)
-checkProps(props:Properties):boo
+addListener(listener:WizardListen
+notifyThis(args:String[]):void
716
718
720

Fig. 5CI

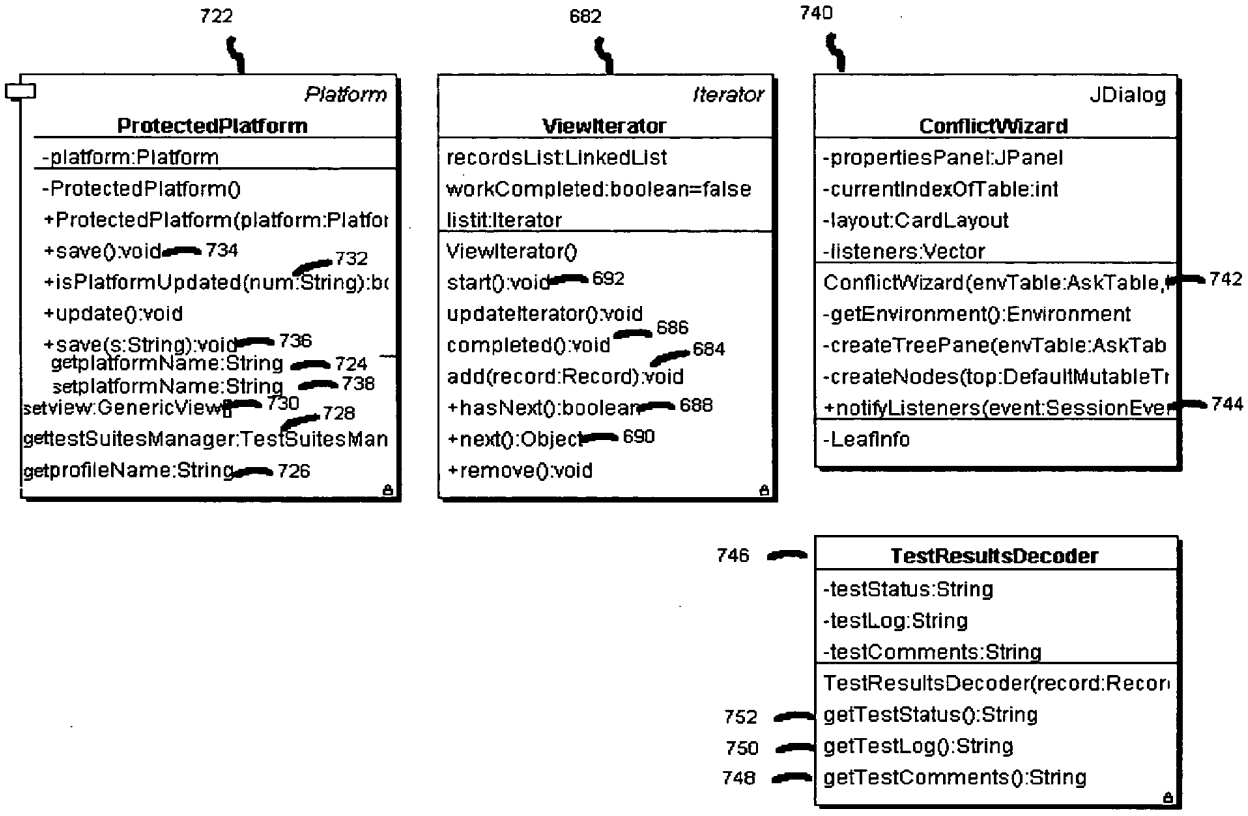

722
Platform
ProtectedPlatform
-platform:Platform
-ProtectedPlatform()
+ProtectedPlatform(platform:Platfor
+save():void
734
732
+isPlatformUpdated(num:String):b
+update():void
+save(s:String):void
736
getplatformName:String
724
setplatformName:String
738
setview:GenericView
730
728
gettestSuitesManager:TestSuitesMan
getprofileName:String
726
682
Iterator
ViewIterator
recordsList:LinkedList
workCompleted:boolean=false
listit:Iterator
ViewIterator()
start():void
692
updateIterator():void
completed():void
686
684
add(record:Record):void
+hasNext():boolean
688
+next():Object
690
+remove():void
740
JDialog
ConflictWizard
-propertiesPanel:JPanel
-currentIndexOfTable:int
-layout:CardLayout
-listeners:Vector
ConflictWizard(envTable:AskTable,
742
-getEnvironment():Environment
-createTreePane(envTable:AskTab
-createNodes(top:DefaultMutableTr
+notifyListeners(event:SessionEver
744
-LeafInfo
746
TestResultsDecoder
-testStatus:String
-testLog:String
-testComments:String
TestResultsDecoder(record:Recor
752
getTestStatus():String
750
getTestLog():String
748
getTestComments():String

Fig. 5CJ

Fig. 5DC

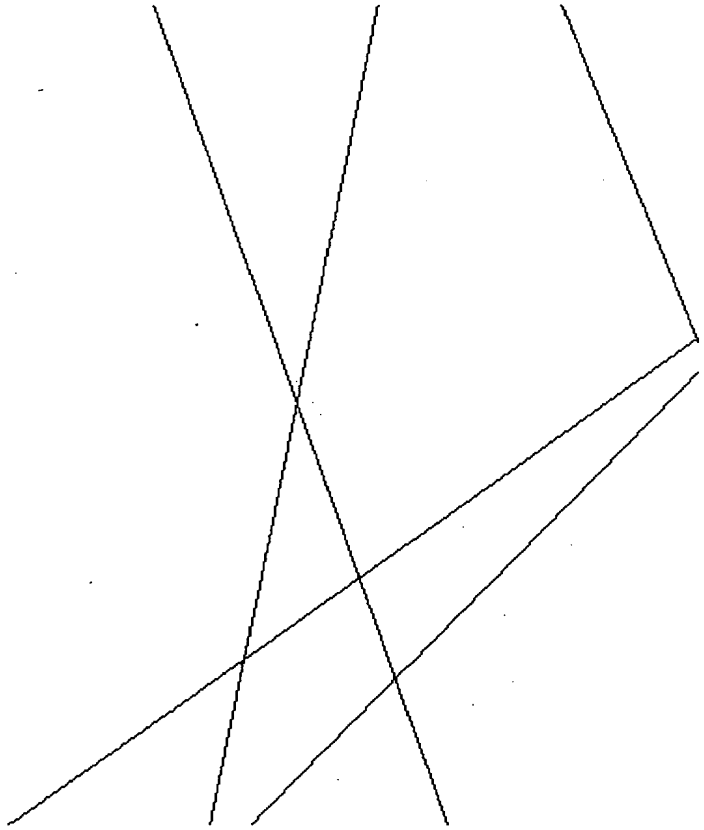


Fig. 5DD

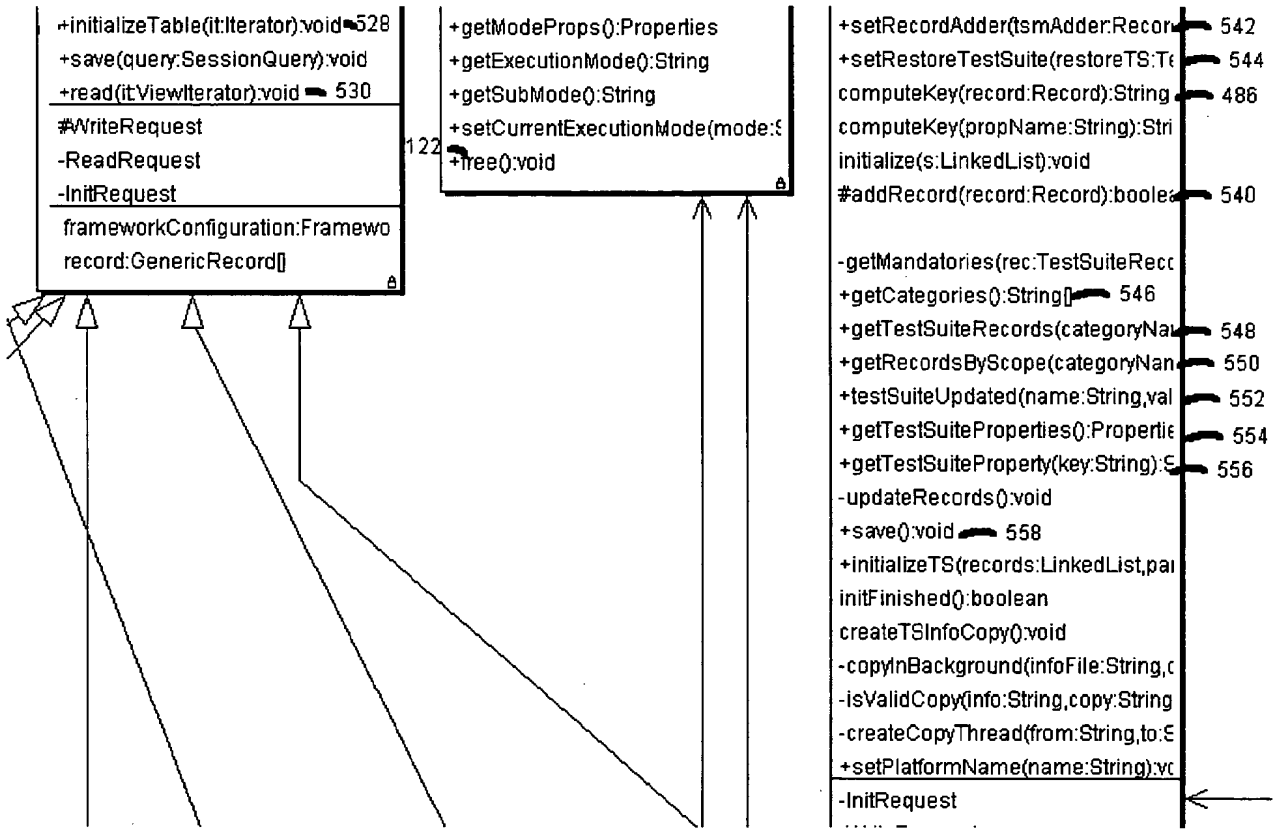

+initializeTable(it:Iterator):void
528
+save(query:SessionQuery):void
+read(it:ViewIterator):void
530
#WriteRequest
-ReadRequest
-InitRequest
frameworkConfiguration:Framewo
record:GenericRecord[]
122
+getModeProps():Properties
+getExecutionMode():String
+getSubMode():String
+setCurrentExecutionMode(mode:
+free():void
+setRecordAdder(tsmAdder:Recor
542
+setRestoreTestSuite(restoreTS:T
544
computeKey(record:Record):String
486
computeKey(propName:String):Stri
initialize(s:LinkedList):void
#addRecord(record:Record):boole
540
-getMandatories(rec:TestSuiteRecc
+getCategories():String[]
546
+getTestSuiteRecords(categoryNa
548
+getRecordsByScope(categoryNan
550
+testSuiteUpdated(name:String,val
552
+getTestSuiteProperties():Propertie
554
+getTestSuiteProperty(key:String):S
556
-updateRecords():void
+save():void
558
+initializeTS(records:LinkedList,pa
initFinished():boolean
createTSInfoCopy():void
-copyInBackground(infoFile:String,c
-isValidCopy(info:String,copy:String
-createCopyThread(from:String,to:S
+setPlatformName(name:String):vc
-InitRequest

Fig. 5DE

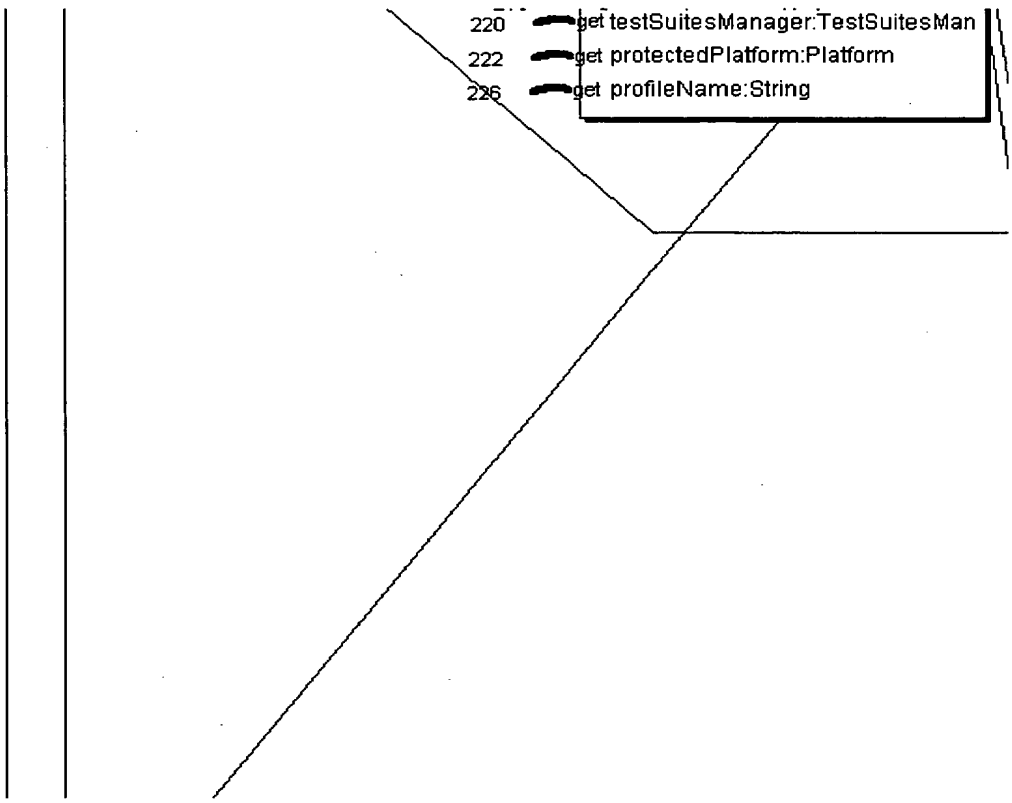

220
get testSuitesManager:TestSuitesMan
222
get protectedPlatform:Platform
226
get profileName:String

Fig. 5DF

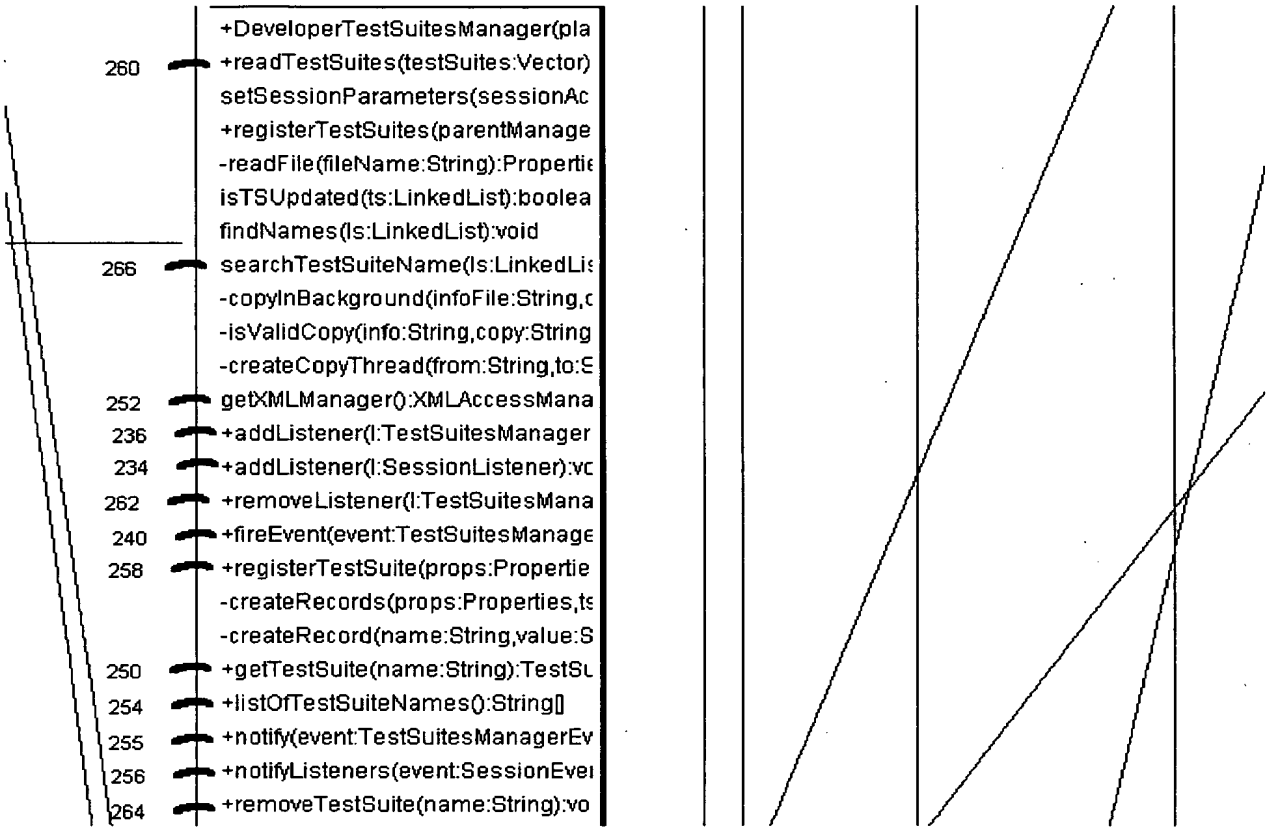

+DeveloperTestSuitesManager(pla
260
+readTestSuites(testSuites:Vector)
setSessionParameters(sessionAc
+registerTestSuites(parentManage
-readFile(fileName:String):Propertie
isTSUpdated(ts:LinkedList):boolea
findNames(ls:LinkedList):void
266
searchTestSuiteName(ls:LinkedLis
-copyInBackground(infoFile:String,c
-isValidCopy(info:String,copy:String
-createCopyThread(from:String,to:S
252
getXMLManager():XMLAccessMana
236
+addListener(l:TestSuitesManager
234
+addListener(l:SessionListener):vc
262
+removeListener(l:TestSuitesMana
240
+fireEvent(event:TestSuitesManage
258
+registerTestSuite(props:Propertie
-createRecords(props:Properties,ts
-createRecord(name:String,value:S
250
+getTestSuite(name:String):TestSu
254
+listOfTestSuiteNames():String[]
255
+notify(event:TestSuitesManagerEv
256
+notifyListeners(event:SessionEve
264
+removeTestSuite(name:String):vo

Fig. 5DG

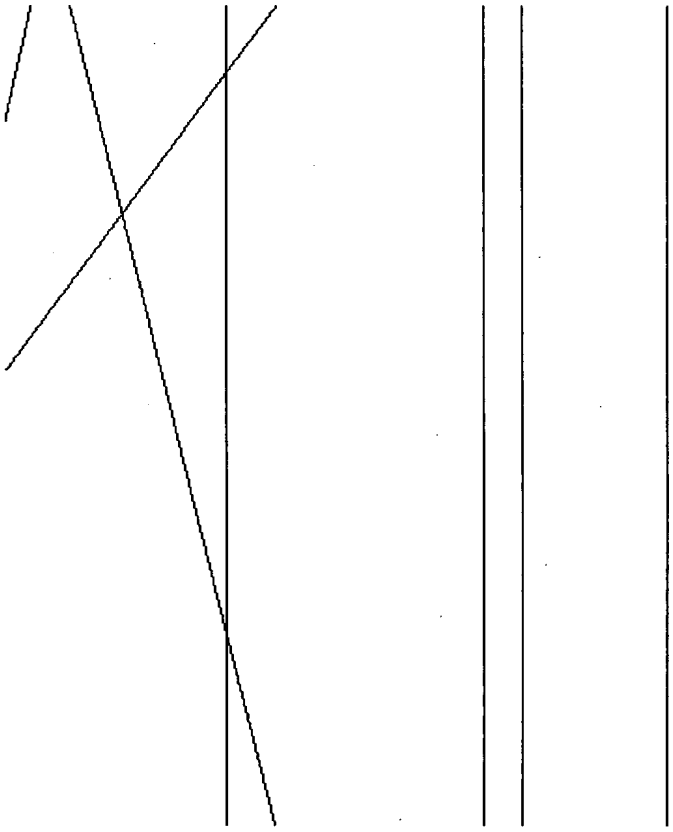


Fig. 5DH

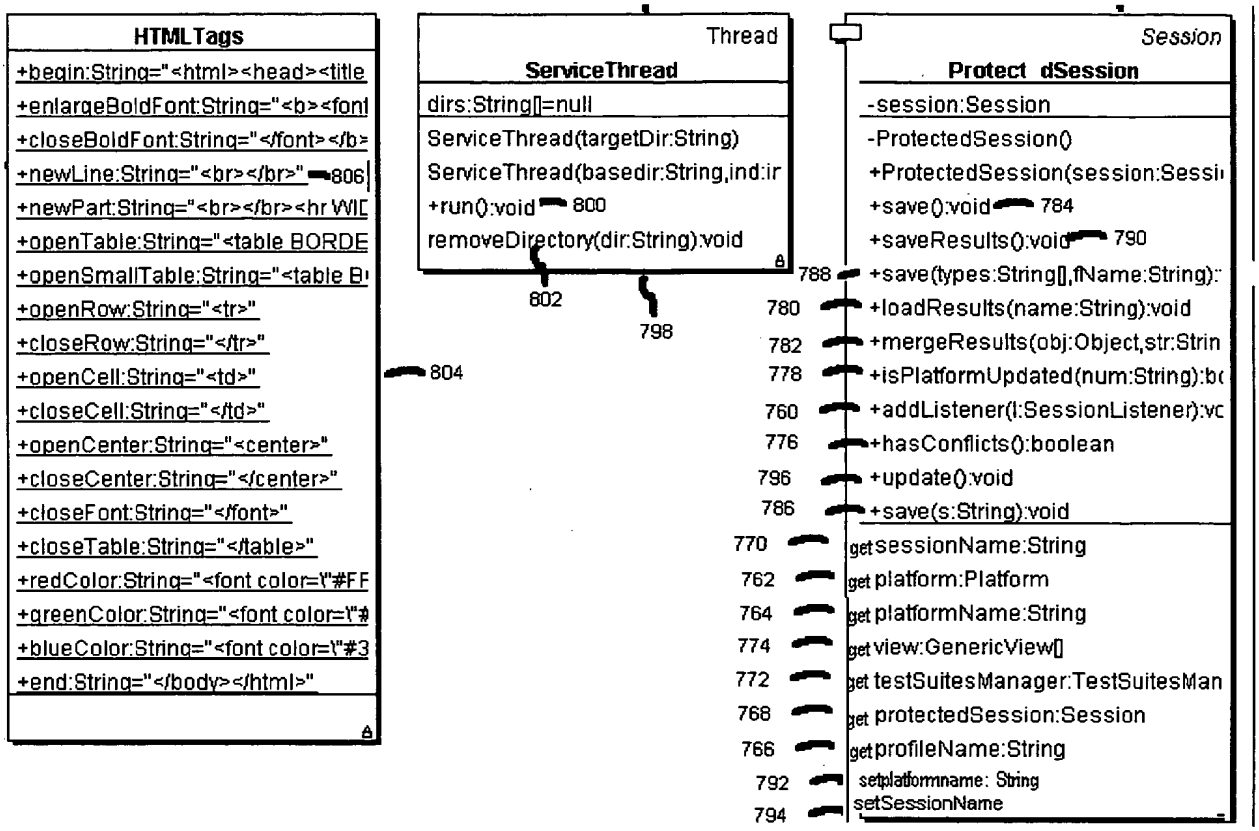

HTMLTags
+begin:String="<html><head><title
+enlargeBoldFont:String="<font
+closeBoldFont:String="
+newLine:String="
</br>"
+newPart:String="
</br><hr WI
+openTable:String="<table BORDE
+openSmallTable:String="<table B
+openRow:String="<tr>"
+closeRow:String="</tr>"
+openCell:String="<td>"
+closeCell:String="</td>"
+openCenter:String=" "
+closeCenter:String=" "
+closeFont:String=""
+closeTable:String="</table>"
+redColor:String="<font color=\"#FF
+greenColor:String="<font color=\"#
+blueColor:String="<font color=\"#3
+end:String="</body></html>"
806
804
Thread
ServiceThread
dirs:String[]=null
ServiceThread(targetDir:String)
ServiceThread(basedir:String,ind:ir
+run():void
800
removeDirectory(dir:String):void
802
798
Session
Protect dSession
-session:Session
-ProtectedSession()
+ProtectedSession(session:Sessi
+save():void
784
+saveResults():void
790
788
+save(types:String[],fName:String):
780
+loadResults(name:String):void
782
+mergeResults(obj:Object,str:Strin
778
+isPlatformUpdated(num:String):b
760
+addListener(l:SessionListener):vc
776
+hasConflicts():boolean
796
+update():void
786
+save(s:String):void
770
get sessionName:String
762
get platform:Platform
764
get platformName:String
774
get view:GenericView[]
772
get testSuitesManager:TestSuitesMan
768
get protectedSession:Session
766
get profileName:String
792
setplatformname: String
794
setSessionName

Fig. 5DI

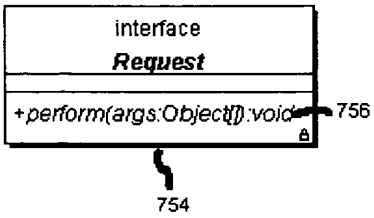


Fig. 5DJ

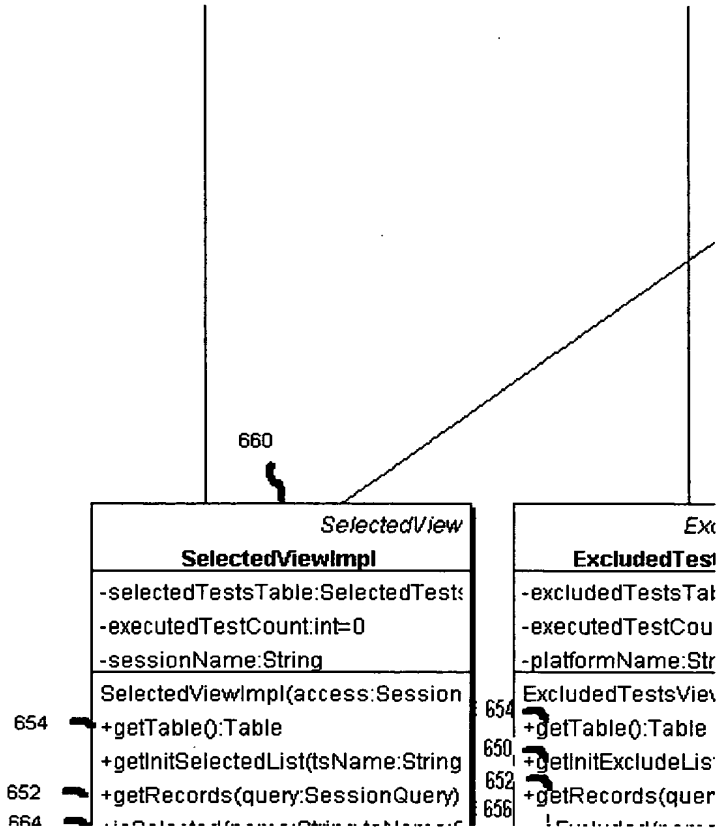

660
SelectedView
SelectedViewImpl
-selectedTestsTable:SelectedTests
-executedTestCount:int=0
-sessionName:String
SelectedViewImpl(access:Session
654
+getTable():Table
+getInitSelectedList(tsName:String
652
+getRecords(query:SessionQuery)
Ex
ExcludedTest
-excludedTestsTab
-executedTestCou
-platformName:Str
ExcludedTestsView
654
+getTable():Table
650
+getInitExcludeLis
652
+getRecords(quer
656

Fig. 5EC

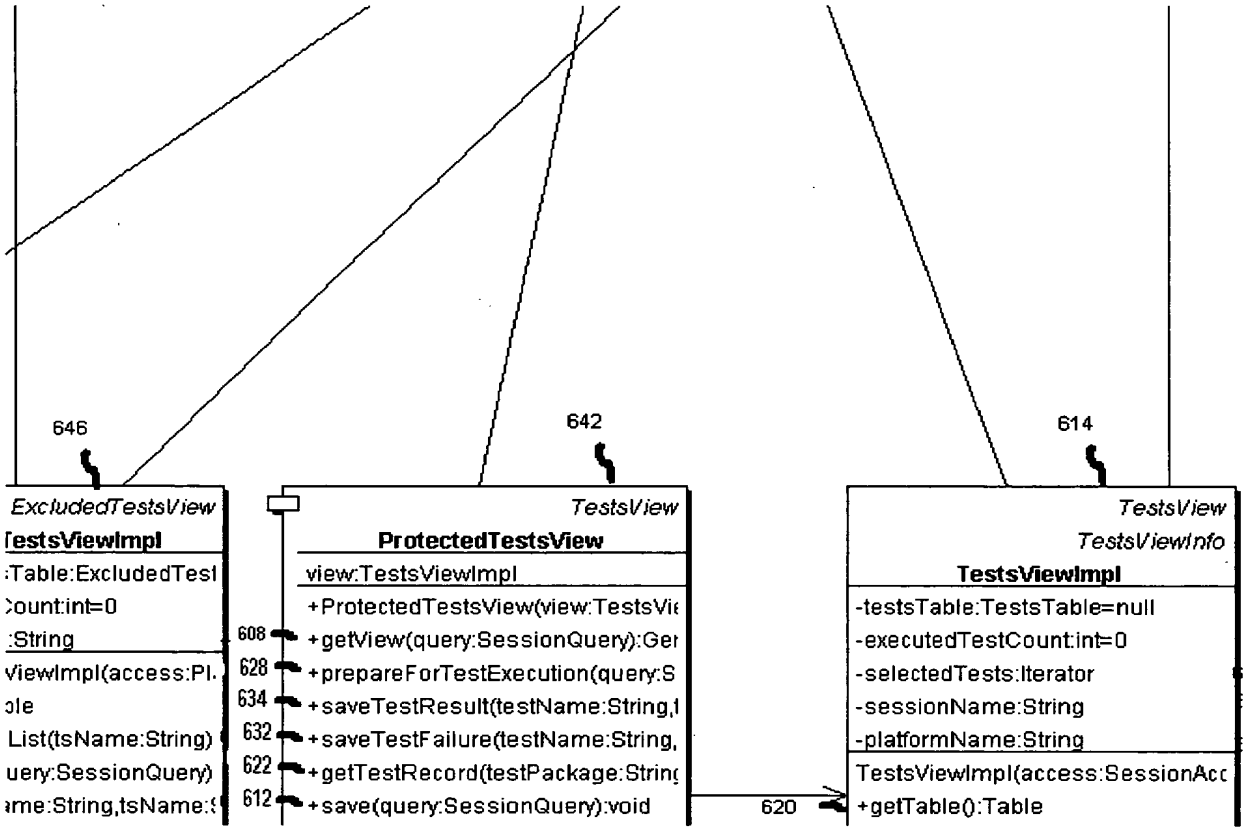

646
642
614
ExcludedTestsView
TestsView
TestsView
TestsViewInfo
ProtectedTestsView
TestsViewImpl
view:TestsViewImpl
-testsTable:TestsTable=null
-executedTestCount:int=0
-selectedTests:Iterator
-sessionName:String
-platformName:String
+ProtectedTestsView(view:TestsVi
608 +getView(query:SessionQuery):Ge
628 +prepareForTestExecution(query:S
634 +saveTestResult(testName:String,
632 +saveTestFailure(testName:String,
622 +getTestRecord(testPackage:Strin
612 +save(query:SessionQuery):void
620
+getTable():Table

Fig. 5ED

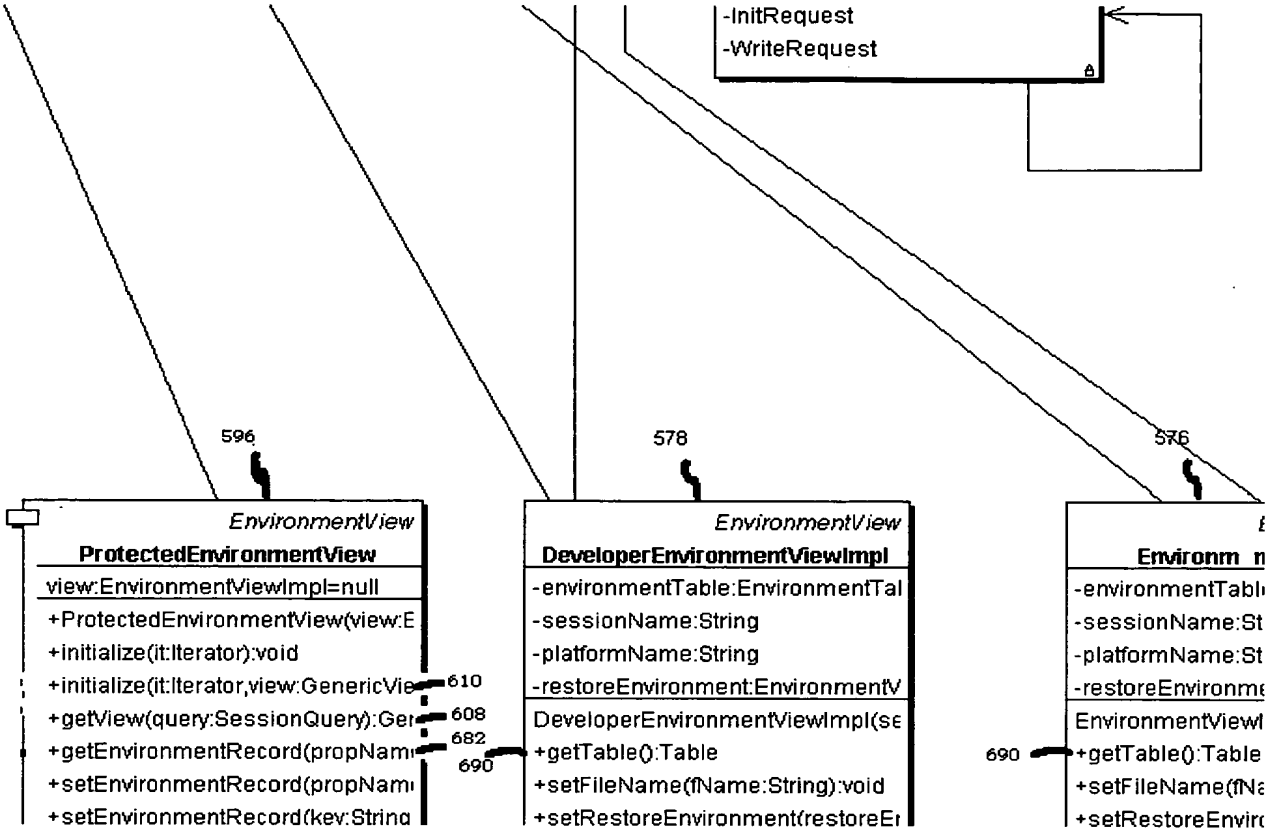

-InitRequest
-WriteRequest
596
578
576
EnvironmentView
ProtectedEnvironmentView
view:EnvironmentViewImpl=null
+ProtectedEnvironmentView(view:E
+initialize(it:Iterator):void
+initialize(it:Iterator,view:GenericVie
+getView(query:SessionQuery):Ge
+getEnvironmentRecord(propNam
+setEnvironmentRecord(propNam
+setEnvironmentRecord(key:String
610
608
682
690
EnvironmentView
DeveloperEnvironmentViewImpl
-environmentTable:EnvironmentTal
-sessionName:String
-platformName:String
-restoreEnvironment:EnvironmentV
DeveloperEnvironmentViewImpl(se
+getTable():Table
+setFileName(fName:String):void
+setRestoreEnvironment(restoreEr
690
-environmentTabl
-sessionName:St
-platformName:St
-restoreEnvironme
EnvironmentViewI
+getTable():Table
+setFileName(fNa
+setRestoreEnvirc

Fig. 5EE

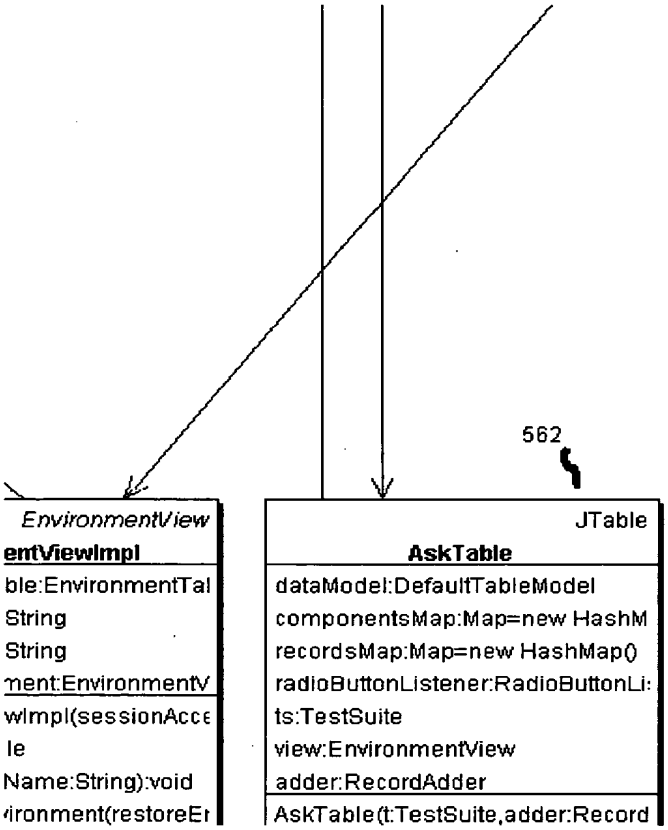

562
EnvironmentView
entViewImpl
ble:EnvironmentTal
String
String
ment:EnvironmentV
wImpl(sessionAcce
le
Name:String):void
ironment(restoreEr
JTable
AskTable
dataModel:DefaultTableModel
componentsMap:Map=new HashM
recordsMap:Map=new HashMap()
radioButtonListener:RadioButtonLi
ts:TestSuite
view:EnvironmentView
adder:RecordAdder
AskTable(t:TestSuite,adder:Record

Fig. 5EF

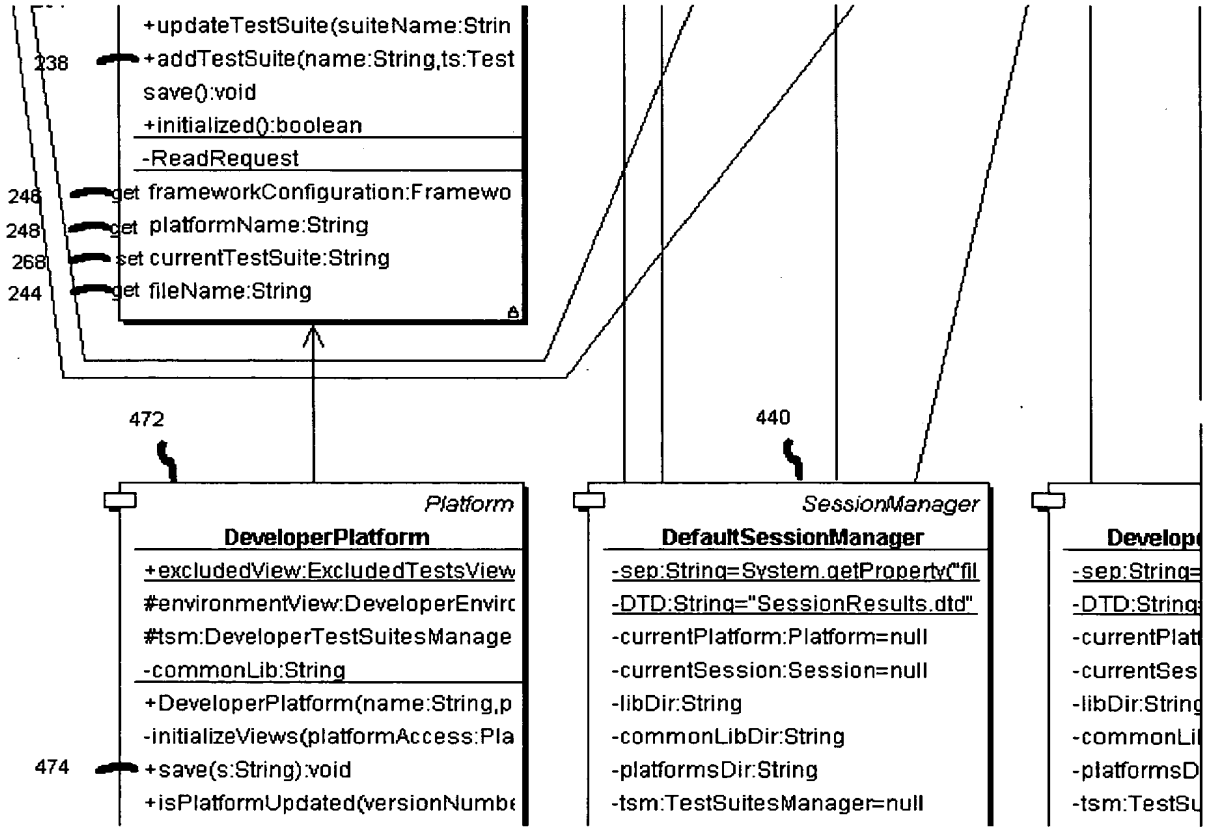

+updateTestSuite(suiteName:Strin
238
+addTestSuite(name:String,ts:Test
save():void
+initialized():boolean
-ReadRequest
248
get frameworkConfiguration:Framewo
248
get platformName:String
268
set currentTestSuite:String
244
get fileName:String
472
440
Platform
DeveloperPlatform
+excludedView:ExcludedTestsView
#environmentView:DeveloperEnvirc
#tsm:DeveloperTestSuitesManage
-commonLib:String
+DeveloperPlatform(name:String,p
-initializeViews(platformAccess:Pla
474
+save(s:String):void
+isPlatformUpdated(versionNumbe
SessionManager
DefaultSessionManager
-sep:String=System.getProperty("fil
-DTD:String="SessionResults.dtd"
-currentPlatform:Platform=null
-currentSession:Session=null
-libDir:String
-commonLibDir:String
-platformsDir:String
-tsm:TestSuitesManager=null

Fig. 5EG

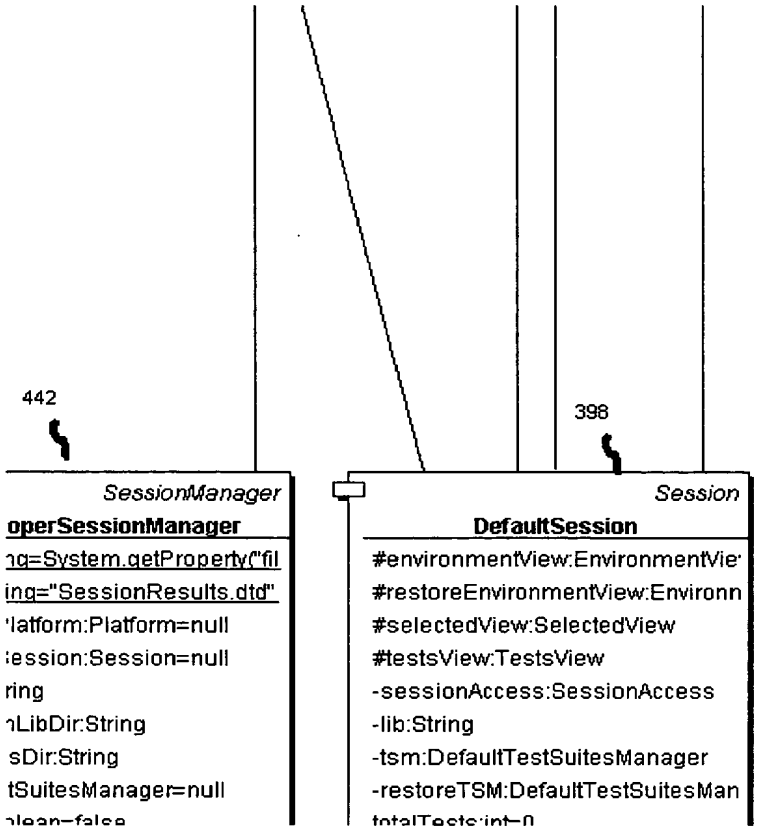

442
398
SessionManager
operSessionManager
ng=System.getProperty("fil
ing="SessionResults.dtd"
'latform:Platform=null
:ession:Session=null
ring
nLibDir:String
sDir:String
tSuitesManager=null
Session
DefaultSession
#environmentView:EnvironmentVie
#restoreEnvironmentView:Environn
#selectedView:SelectedView
#testsView:TestsView
-sessionAccess:SessionAccess
-lib:String
-tsm:DefaultTestSuitesManager
-restoreTSM:DefaultTestSuitesMan

Fig. 5EH

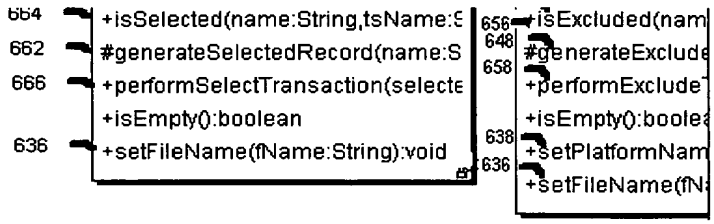

664
+isSelected(name:String,tsName:S
662
#generateSelectedRecord(name:S
666
+performSelectTransaction(selecte
+isEmpty():boolean
636
+setFileName(fName:String):void
656
+isExcluded(nam
648
#generateExclude
658
+performExclude
+isEmpty():boole
638
+setPlatformNam
636
+setFileName(fN

Fig. 5FC

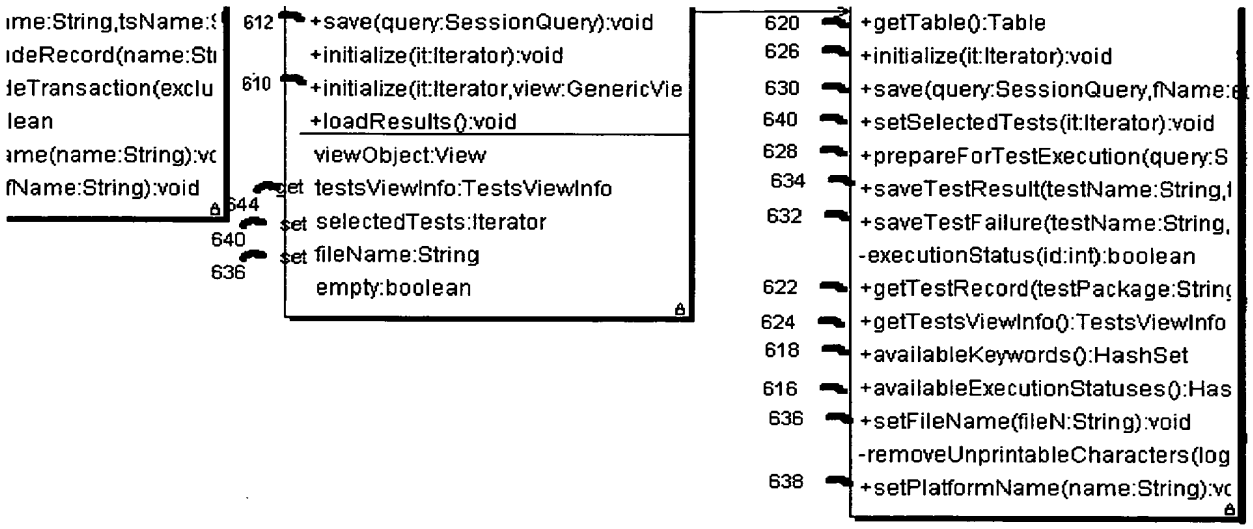

ıme:String,tsName:
ideRecord(name:St
leTransaction(exclu
lean
ame(name:String):vc
fName:String):void
612
+save(query:SessionQuery):void
+initialize(it:Iterator):void
610
+initialize(it:Iterator,view:GenericVie
+loadResults():void
viewObject:View
644
get testsViewInfo:TestsViewInfo
640
set selectedTests:Iterator
636
set fileName:String
empty:boolean
620
+getTable():Table
626
+initialize(it:Iterator):void
630
+save(query:SessionQuery,fName:
640
+setSelectedTests(it:Iterator):void
628
+prepareForTestExecution(query:S
634
+saveTestResult(testName:String,
632
+saveTestFailure(testName:String,
-executionStatus(id:int):boolean
622
+getTestRecord(testPackage:Strin
624
+getTestsViewInfo():TestsViewInfo
618
+availableKeywords():HashSet
616
+availableExecutionStatuses():Has
636
+setFileName(fileN:String):void
-removeUnprintableCharacters(log
638
+setPlatformName(name:String):vc

Fig. 5FD

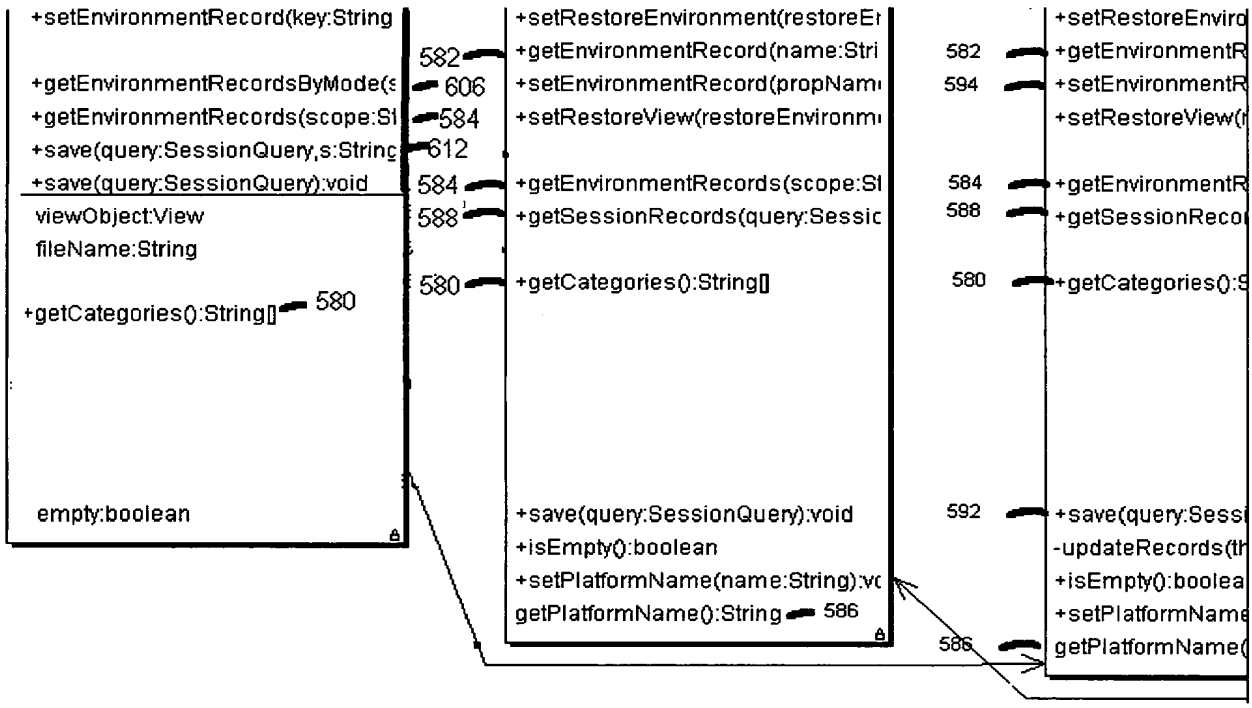

+setEnvironmentRecord(key:String
+getEnvironmentRecordsByMode(s
+getEnvironmentRecords(scope:St
+save(query:SessionQuery,s:String
+save(query:SessionQuery):void
viewObject:View
fileName:String
+getCategories():String[]
580
empty:boolean
582
606
584
612
584
588
580
+setRestoreEnvironment(restoreEr
+getEnvironmentRecord(name:Stri
+setEnvironmentRecord(propNam
+setRestoreView(restoreEnvironm
+getEnvironmentRecords(scope:St
+getSessionRecords(query:Sessic
+getCategories():String[]
+save(query:SessionQuery):void
+isEmpty():boolean
+setPlatformName(name:String):vc
getPlatformName():String
586
582
594
584
588
580
592
586
+setRestoreEnviro
+getEnvironmentR
+setEnvironmentR
+setRestoreView(r
+getEnvironmentR
+getSessionReco
+getCategories():S
+save(query:Sessi
-updateRecords(th
+isEmpty():boolea
+setPlatformName
getPlatformName(

Fig. 5FE

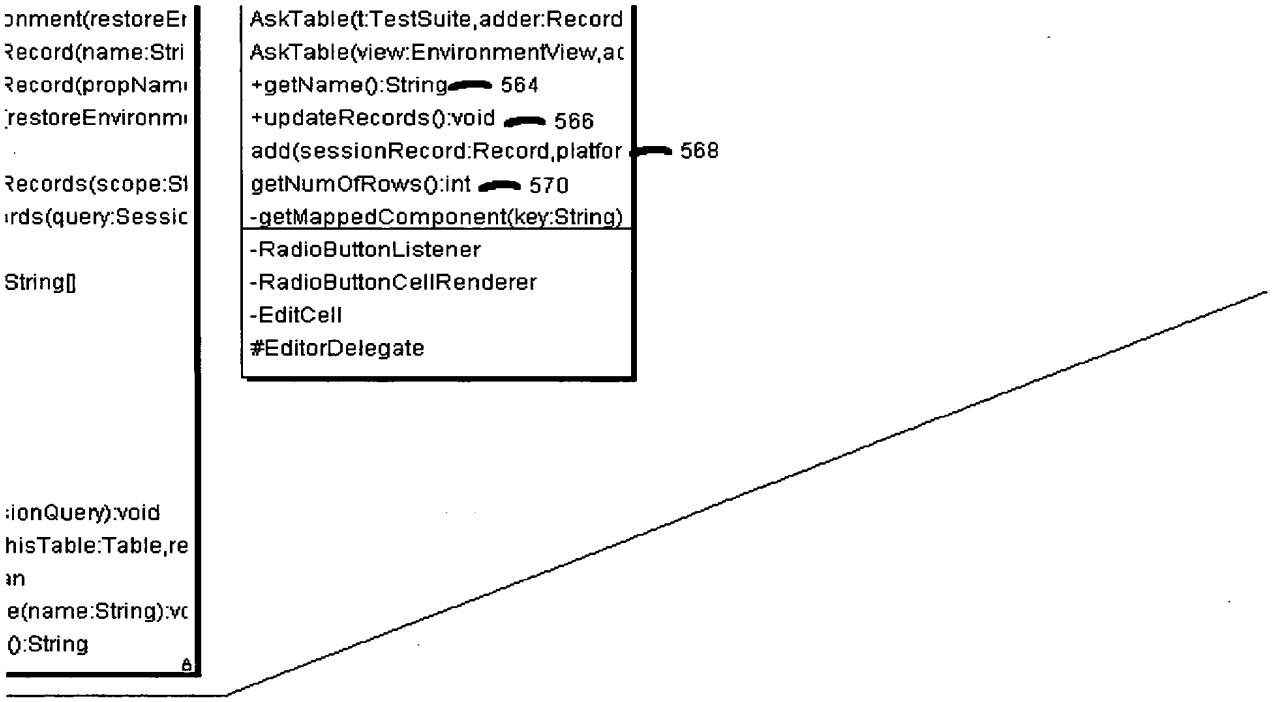

onment(restoreEr
Record(name:Stri
Record(propNam
restoreEnvironm
Records(scope:St
rds(query:Sessic
String[]
ionQuery):void
hisTable:Table,re
an
e(name:String):vc
():String
AskTable(t:TestSuite,adder:Record
AskTable(view:EnvironmentView,ac
+getName():String
564
+updateRecords():void
566
add(sessionRecord:Record,platfor
568
getNumOfRows():int
570
-getMappedComponent(key:String)
-RadioButtonListener
-RadioButtonCellRenderer
-EditCell
#EditorDelegate

Fig. 5FF

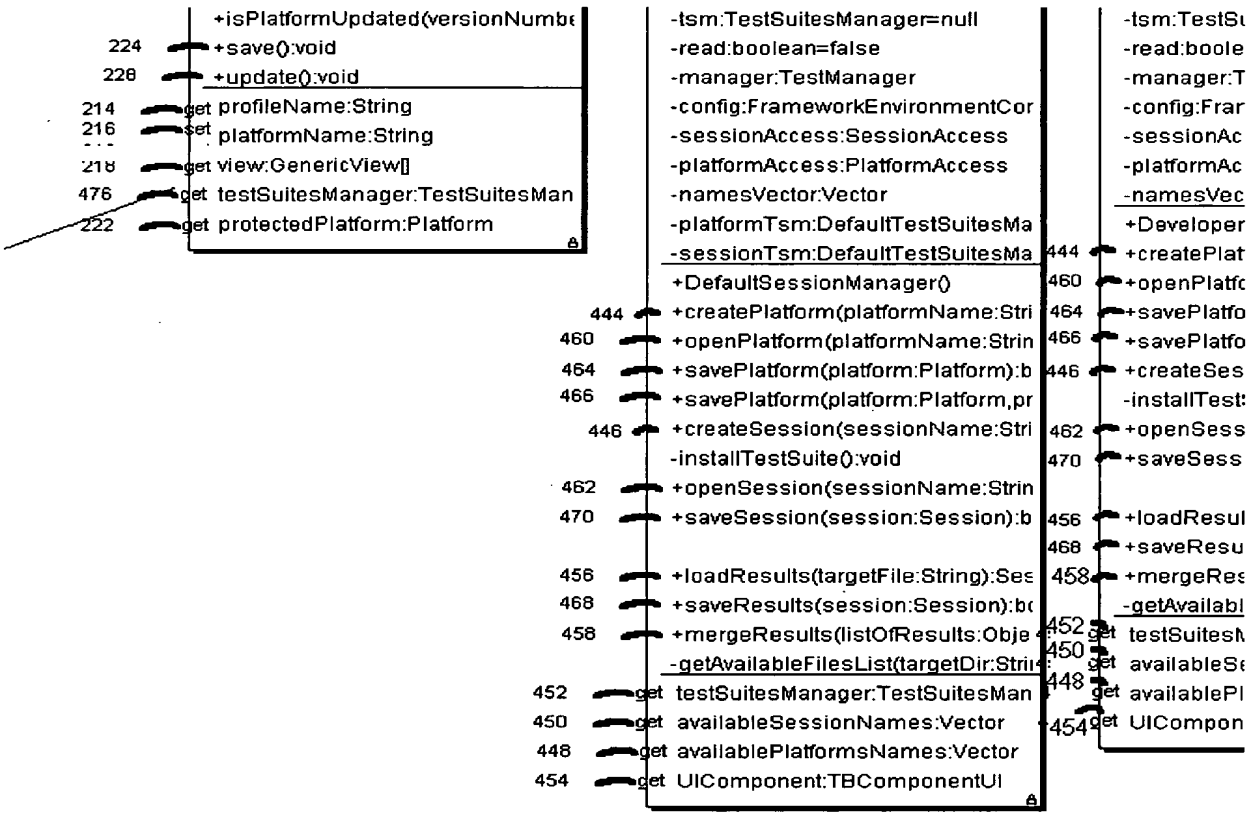

+isPlatformUpdated(versionNumbe
224 +save():void
228 +update():void
214 get profileName:String
216 set platformName:String
218 get view:GenericView[]
476 get testSuitesManager:TestSuitesMan
222 get protectedPlatform:Platform
-tsm:TestSuitesManager=null
-read:boolean=false
-manager:TestManager
-config:FrameworkEnvironmentCor
-sessionAccess:SessionAccess
-platformAccess:PlatformAccess
-namesVector:Vector
-platformTsm:DefaultTestSuitesMa
-sessionTsm:DefaultTestSuitesMa
+DefaultSessionManager()
444 +createPlatform(platformName:Stri
460 +openPlatform(platformName:Strin
464 +savePlatform(platform:Platform):b
466 +savePlatform(platform:Platform,pr
446 +createSession(sessionName:Stri
-installTestSuite():void
462 +openSession(sessionName:Strin
470 +saveSession(session:Session):b
456 +loadResults(targetFile:String):Ses
468 +saveResults(session:Session):bo
458 +mergeResults(listOfResults:Obje
-getAvailableFilesList(targetDir:Stri
452 get testSuitesManager:TestSuitesMan
450 get availableSessionNames:Vector
448 get availablePlatformsNames:Vector
454 get UIComponent:TBComponentUI
-tsm:TestSu
-read:boole
-manager:T
-config:Frar
-sessionAc
-platformAc
-namesVec
+Developer
444 +createPlat
460 +openPlatfo
464 +savePlatfo
466 +savePlatfo
446 +createSes
-installTest
462 +openSess
470 +saveSess
456 +loadResul
468 +saveResu
458 +mergeRes
-getAvailabl
452 get testSuitesM
450 get availableSe
448 get availablePl
454 get UICompon

Fig. 5FG

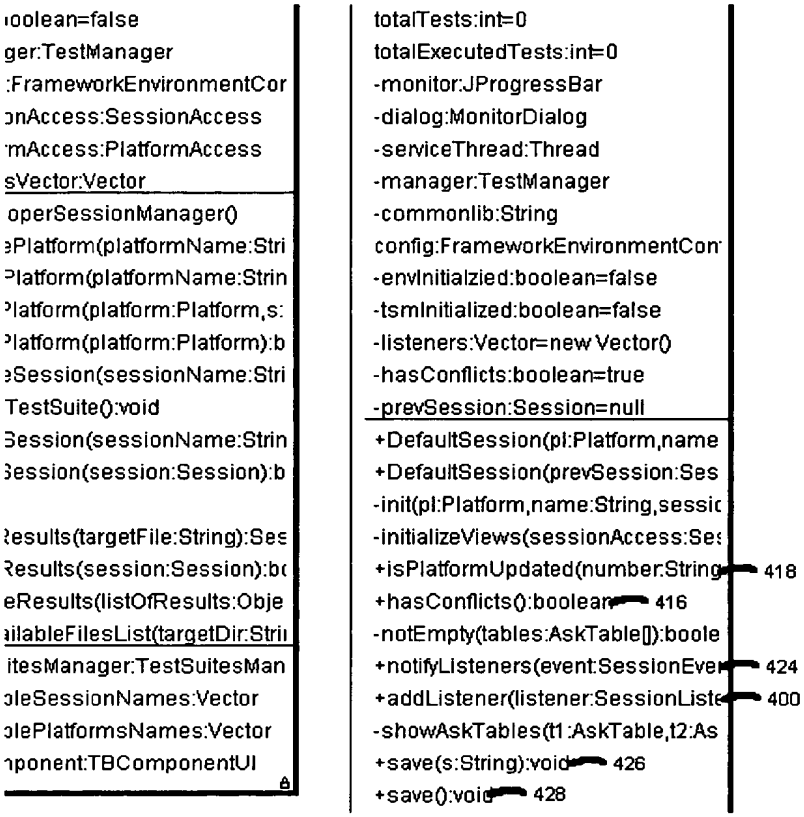

ıoolean=false
ger:TestManager
:FrameworkEnvironmentCor
ɔnAccess:SessionAccess
ˈmAccess:PlatformAccess
sVector:Vector
operSessionManager()
ɜPlatform(platformName:Stri
Platform(platformName:Strin
Platform(platform:Platform,s:
Platform(platform:Platform):b
ɜSession(sessionName:Stri
TestSuite():void
Session(sessionName:Strin
Session(session:Session):b
Results(targetFile:String):Ses
Results(session:Session):b
eResults(listOfResults:Obje
ilableFilesList(targetDir:Stri
itesManager:TestSuitesMan
ɔleSessionNames:Vector
ɔlePlatformsNames:Vector
ɲponent:TBComponentUI
totalTests:int=0
totalExecutedTests:int=0
-monitor:JProgressBar
-dialog:MonitorDialog
-serviceThread:Thread
-manager:TestManager
-commonlib:String
config:FrameworkEnvironmentCon
-envInitialzied:boolean=false
-tsmInitialized:boolean=false
-listeners:Vector=new Vector()
-hasConflicts:boolean=true
-prevSession:Session=null
+DefaultSession(pl:Platform,name
+DefaultSession(prevSession:Ses
-init(pl:Platform,name:String,sessic
-initializeViews(sessionAccess:Ses
+isPlatformUpdated(number:String
418
+hasConflicts():boolean
416
-notEmpty(tables:AskTable[]):boole
+notifyListeners(event:SessionEve
424
+addListener(listener:SessionListe
400
-showAskTables(t1:AskTable,t2:As
+save(s:String):void
426
+save():void
428

Fig. 5FH

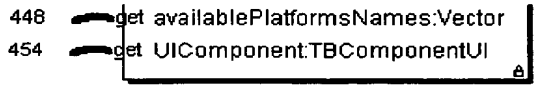

448
get availablePlatformsNames:Vector
454
get UIComponent:TBComponentUI

Fig. 5GG

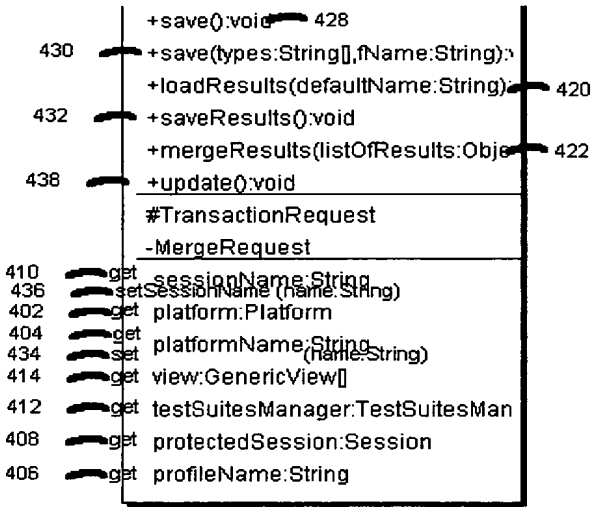

+save():void
428
430
+save(types:String[],fName:String):
+loadResults(defaultName:String)
420
432
+saveResults():void
+mergeResults(listOfResults:Obje
422
438
+update():void
#TransactionRequest
-MergeRequest
410
get
sessionName:String
436
set
SessionName (name:String)
402
get
platform:Platform
404
get
platformName:String
434
set
(name:String)
414
get
view:GenericView[]
412
get
testSuitesManager:TestSuitesMan
408
get
protectedSession:Session
406
get
profileName:String

Fig. 5GH